THE FORMER WILLOW STREET STATION MANUFACTURED GAS PLANT SITE, 1640 NORTH KINGSBURY PORTION CHICAGO, ILLINOIS

SUPPLEMENTAL SITE INVESTIGATION REPORT/ REMEDIATION OBJECTIVES REPORT/ REMEDIAL ACTION PLAN

Prepared for

THE PEOPLES GAS LIGHT and COKE COMPANY

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Project No. 32088

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EXECUTIVE SUMMARY

In conformance with the Illinois Environmental Protection Agency (Illinois EPA) Site Remediation Program (SRP), defined in Chapter 35 of the Illinois Administrative Code (IAC), Part 740, The Peoples Gas Light and Coke Company (Peoples Gas) engaged Burns & McDonnell to complete this *Supplemental Site Investigation/Remediation Objectives Report/Remedial Action Plan* (SSI/ROR/RAP) for the 1640 North Kingsbury portion of the former Willow Street Station manufactured gas plant (MGP) property in Chicago, Illinois (Site). This SSI/ROR/RAP summarizes SSI activities and findings at the Site, presents recognized environmental conditions and related impacts identified on the Site, and develops applicable remediation objectives (ROs) and remedial actions in accordance with the Tiered Approach to Corrective Action Objectives (TACO) presented in 35 IAC, Part 742.

The Site is located at the intersection of Willow Street and North Kingsbury Street in Section 32, Township 40 North, Range 14 East in the City of Chicago, Cook County, Illinois. The former Willow Street Station MGP was approximately 5.5 acres and was located on three parcels of land. One parcel of the former Willow Street Station was located east of Kingsbury Street and the other two parcels were located west of Kingsbury Street adjacent to the North Branch of the Chicago River (River). The Site is located on the western portion of the former Willow Street Station. The Site occupies approximately 3.4 acres and is bounded to the north and south by industrial/commercial properties; to the east by the Chicago, Milwaukee and St. Paul Railroad and Kingsbury Street; and to the west by the North Branch of the Chicago River. The Site address is 1640 North Kingsbury Street, Chicago, Illinois. The Site is owned by GI North Property, LLC (GI North) and is occupied by General Iron Industries, Inc. (GI) for use as a laydown area for unprepared steel. The ground surface is unpaved, most of the original aboveground gas plant structures have been removed and a chain-link fence exists along Kingsbury Street.

Comprehensive site investigation (SI) activities, including but not limited to collection and analyses of soil and groundwater samples, were conducted in February and March 2002. The results of the SI are presented in the *Comprehensive Site Investigation Report, The Former Willow Street Manufactured Gas Plant Site, 1640 North Kingsbury Portion* (SI Report) (Burns & McDonnell 2005a) and the *Comprehensive Site Investigation Sampling Data, The Former Willow Street Manufactured Gas Plant Site, 1640 North Kingsbury Portion* (Burns & McDonnell 2005b). The SI Report established that the subsurface consisted of silty clay overlain by fill and that perched groundwater at the Site met the regulatory definition of a Class II resource groundwater. The SI Report concluded that source material and soil and groundwater exceeding TACO Tier 1 ROs for certain constituents were present at the Site. The SI Report was conditionally approved by the Illinois EPA in May 2005.

In November and December 2004, Burns & McDonnell conducted SSI activities along the River. The objective of the investigation was to collect additional data in order to further define the nature and extent of impacts along the River. The SSI included the advancement of 14 soil borings, the advancement of three geotechnical soil borings, and the excavation of two test pits.

A TACO Tier 1 residential land use and construction worker evaluation, including non-TACO chemicals that were obtained from tables that are dated October 1, 2004 from the Illinois EPA website (Illinois EPA 2004), was performed on the data obtained from the SI and SSI and concluded the following:

- Benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, total polychlorinated biphenyls (PCBs), arsenic, chromium, and lead concentrations exceeded Tier 1 soil ingestion ROs.
- Benzene, naphthalene, and chromium concentrations exceeded Tier 1 soil inhalation ROs.
- Benzene, ethylbenzene, carbazole, 2-methylnaphthalene, 4-methylphenol, benzo(a)anthracene, naphthalene, total chromium, toxicity characteristic leaching procedure (TCLP) lead, and total selenium concentrations exceeded Tier 1 soil migration to Class II groundwater ROs.
- Benzene, benzo(a)anthracene, copper, lead, and thallium concentrations exceeded the Tier 1 Class II groundwater ingestion ROs.

In addition, the following source material areas were identified based on conservative default parameters presented in TACO:

- The former tar wells;
- The former 100,000-ft^3 gas holder;
- The former 420,000-ft^3 gas holder;
- The center of the former 17,000,000-ft^3 gas holder, north of the former tar wells;
- The vicinity of the possible location of the west valve/weir box;
- The area west of the 17,000,000-ft^3 gas holder, along the River; and
- The area located on the southern portion of the Site, along the River.

A shallow surface soil area that contained a total PCB concentration of 55.6 milligrams per kilogram (mg/kg) was remediated on behalf of the Site owner in April 2004 pursuant to the United States Environmental Protection Agency's (USEPA's) self-implementing cleanup and disposal option under Title 40 of the Code of Federal Regulations (CFR) Part 761.61 as presented in the SI Report (Burns & McDonnell 2005a).

Further evaluation of benzene, ethylbenzene, carbazole, benzo(a)anthracene, naphthalene and TCLP lead in soil was conducted to estimate groundwater concentrations at the River. Predicted impacts to groundwater at the River were less than the applicable groundwater ROs and surface water quality standards.

Further evaluation of the groundwater ingestion exposure route was conducted using site-specific data to estimate the benzene, benzo(a)anthracene, copper, lead, and thallium concentrations at the River associated with measured concentrations in samples collected from groundwater monitoring wells on site. Predicted impacts to offsite groundwater and surface water are well below applicable groundwater and available surface water quality standards.

A Tier 3 risk evaluation was performed to evaluate the property for residential land use and to evaluate both construction and utility workers outside the 30-foot River setback area. The evaluation was conducted using limited data sets from soil samples that will not be removed during remediation. The Tier 3 risk evaluation was performed to establish the proposed set of assumptions and variables for the completion of a formal Tier 3 risk assessment under TACO Section 742.915 following remedial activities. Analytical data from remaining SI and SSI sample locations that were not proposed to be remediated outside of the 30-foot River setback area and confirmation soil samples will be used to fully evaluate risk once the property is restored.

Remediation objectives for the Site were developed and evaluated in accordance with TACO using the Tier 1 and Tier 3 evaluations. These evaluation and Site conditions indicated that corrective action was required. The following remediation goals have been established for the Site:

Outside of the 30-foot Setback along the North Branch of the Chicago River

- Eliminate source material at the Site to the extent practical by removal of source material;
- Prevent exposure to residential, utility and construction worker receptors via the soil ingestion and inhalation exposure routes by removal of the impacted soil to levels established in the Tier 3 risk evaluation included in the SSI/ROR/RAP and develop a post-removal Tier 3 risk assessment to be presented in the Remedial Action Completion Report (RACR); and
- Prevent ingestion of groundwater at the Site by relying on the City of Chicago ordinance prohibiting the installation of potable groundwater wells in the future.

Within the 30-foot Setback along the North Branch of the Chicago River

- Eliminate source material at the Site to the extent practical by removal of source material;
- Prevent exposure to residential and construction worker receptors via the soil ingestion and inhalation exposure routes by a combination of the following:
    - removal of impacted soil to meet Tier 1 ROs
    - installation of an engineered barrier in the setback zone, as needed to meet Tier 1 ROs; and
- Prevent ingestion of groundwater at the Site by relying on the City of Chicago ordinance prohibiting the installation of potable groundwater wells in the future.

In general, remedial activities will include Site preparation; waste characterization; ambient air monitoring; excavation, stockpiling and off-site disposal and backfilling; confirmation sampling; management of decontamination and excavation water; and demobilization and Site restoration.

All excavated soil will be disposed of at an Illinois-approved Subtitle C and/or Subtitle D landfill. All excavation areas will be backfilled to grade with non-impacted imported soil, sand, stone aggregate, coarse aggregate, or a combination thereof.

* * * * *

1.0 INTRODUCTION

In conformance with the Illinois Environmental Protection Agency (Illinois EPA) Site Remediation Program (SRP), defined in Chapter 35 of the Illinois Administrative Code (IAC), Part 740, The Peoples Gas Light and Coke Company (Peoples Gas) engaged Burns & McDonnell to complete this *Supplemental Site Investigation/Remediation Objectives Report/Remedial Action Plan* (SSI/ROR/RAP) for the 1640 North Kingsbury portion of the former Willow Street Station manufactured gas plant (MGP) property in Chicago, Illinois (Site). This SSI/ROR/RAP summarizes SSI activities and findings at the Site, presents recognized environmental conditions and related impacts identified on the Site, and develops applicable remediation objectives (ROs) and remedial actions in accordance with the Tiered Approach to Corrective Action Objectives (TACO) presented in 35 IAC, Part 742. The TACO evaluation for the Site consists of the following approaches:

- A Tier 1 evaluation of residential property and potential risks, if any, to construction workers.
- Source material evaluation.
- Further evaluation of the soil migration to groundwater and groundwater ingestion exposure pathways.
- A Tier 3 risk evaluation to establish scenarios, human exposure factors (both assumptions and default values) and toxicity values proposed for the completion of a formal Tier 3 risk assessment following remedial activities.
- Development of ROs and remedial actions.

1.1 PURPOSE AND ORGANIZATION OF THE SSI/ROR/RAP

The purpose of the SSI/ROR/RAP is to summarize SSI activities and findings, evaluate exposure pathways and develop corrective measures to eliminate exposure to any impacts. This report presents and discusses site-specific ROs and remedial actions as outlined below:

- **Section 1.0 – Introduction**
  This section describes the purpose and organization of the SSI/ROR/RAP and summarizes relevant background information, SSI information, and recognized environmental conditions.
- **Section 2.0 – Summary of Tier 1 Evaluations**
  This section presents land and water uses and summarizes Tier 1 evaluations for a residential land use and a construction worker.
- **Section 3.0 – Exposure Route Evaluation**
  This section identifies source material, if any, and determines whether each exposure route may be excluded from further evaluation.
- **Section 4.0 – Further Evaluation**
  This section further evaluates the soil migration to groundwater and groundwater ingestion exposure pathways by performing a further evaluation and predicting impacts, if any, at the North Branch of the Chicago River (River). In addition, a Tier 3 risk evaluation was conducted to further evaluate the soil ingestion and inhalation exposure routes for residential property, utility workers, and construction workers.

- **Section 5.0 – Remediation Objectives and Remedial Actions**
  This section identifies ROs and describes remedial actions proposed to achieve those objectives.
- **Section 6.0 - References**

1.2 SITE DESCRIPTION

The Site is located at the intersection of Willow Street and North Kingsbury Street in Section 32, Township 40 North, Range 14 East in the City of Chicago, Cook County, Illinois. Figure 1 presents the Site location map. The former Willow Street Station MGP was approximately 5.5 acres and was located on three parcels of land. One parcel of the former Willow Street Station was located east of Kingsbury Street and the other two parcels were located west of Kingsbury Street, adjacent to the River. Figure 2 presents the Site layout map.

The Site is located on the majority of the western portion of the former Willow Street Station. The Site occupies approximately 3.4 acres and is bounded to the north and south by industrial/commercial properties (including Demco Metals, Inc. to the north and a storage yard to the south); to the east by the Chicago, Milwaukee and St. Paul Railroad and Kingsbury Street beyond which is a Commonwealth Edison transformer station, a Peoples Gas regulator station and commercial properties; and to the west by the River. The Site address is 1640 North Kingsbury, Chicago, Illinois. The Site is owned by GI North Property, LLC (GI North) and is occupied by General Iron Industries, Inc. (GI) for use as a laydown area for unprepared steel.

1.3 SITE HISTORY

According to available information, the Ogden Gas Company constructed the former Willow Street Station between approximately 1895 and 1897. The coal gasification plant was operated to supply low British thermal unit (BTU) gas to residential, commercial and industrial customers. At that time, a 420,000-cubic foot (ft^3) gas holder, a 100,000-ft^3 gas holder, a 70,000-gallon oil tank, a 73,000-gallon oil tank, a 158,000-gallon tar tank, hydrometers, a coal shed, generators, and two tar wells were on the Site. Gas was produced using the carburetted water gas method, which is a modification to the blue gas methods. In 1907, Peoples Gas began leasing the property from Ogden Gas Company. Production and the station were shut down between 1910 and 1921. In 1938, most of the aboveground structures were dismantled, and in 1944, the original gas holders were dismantled. Peoples Gas began leasing portions of the former Willow Street Station in 1944 and selling portions in 1947. Between 1949 and 1951, Peoples Gas leased a portion of the Site to Construction Aggregates Company, later Material Services Corporation and E. L. Hedstrom Coal Company for the storage of construction-related materials and coal.

In 1953, Peoples Gas began distributing natural gas and the Site was reactivated as a storage and distribution station. A 17,000,000-ft^3 tar-sealed (waterless) gas holder was constructed over part of the former production facilities, located on the western portion of the former Willow Street Station, to accommodate the natural gas distribution system. The diameter of the gas holder was approximately 255 feet with a maximum height of approximately 339 feet. The 17,000,000-ft^3 gas holder was retired in

1972. Underground portions of the gas holder are present. Since 1988, GI or GI North has owned the majority of the western portion of the former Willow Street Station, and GI has used the property as a laydown area for unprepared steel.

1.4 SITE INVESTIGATIONS

1.4.1 Previous Investigations

In 1991, Hanson Engineers Incorporated (HEI) conducted a preliminary site investigation (SI) at the former Willow Street Station. The results are contained in a report entitled *Preliminary Site Investigation, Willow Street Station Gas Production and Storage Facility, Chicago, Illinois* dated November 1991 (HEI 1991). The objective of the preliminary SI was to determine the potential for impacts, if any, associated with the Willow Street Station. The investigation covered the entire 5.5 acres (including both the west and east portions). The investigation included a review of the environmental setting, historical documents provided by Peoples Gas, Sanborn maps, and a water well survey. The report concluded that most of the original gas plant buildings had been removed at the Site; below ground portions of the gas holders could contain residual tars, if not removed during demolition of the gas plant; groundwater was not used within a one-mile radius of the Site; and no municipal wells were located within a one-mile radius (HEI 1991).

Burns & McDonnell conducted SI field activities in February and March 2002. A total of 18 soil probes and 21 soil borings were advanced at various locations at the Site. Surface and subsurface soil samples were collected from soil probe and boring locations using direct push sampling equipment and hollow stem augering equipment. Soil samples were analyzed for target compound list (TCL) volatile organic compounds (VOCs), TCL semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), priority pollutant metals, barium, and total cyanide. Certain samples were also analyzed for toxicity characteristic leaching procedure (TCLP) Resource Conservation and Recovery Act (RCRA) metals, reactive cyanide, reactive sulfide, flashpoint/BTU, and soil pH. In addition, eight soil samples were analyzed for total petroleum hydrocarbons (TPH), one surface soil sample was analyzed for TCLP lead and synthetic precipitate leaching procedure (SPLP) lead, and one subsurface soil sample was analyzed for TCLP chromium and SPLP chromium. Physical laboratory tests were performed on two subsurface soil samples. Five 2-inch temporary groundwater monitoring wells were installed at the Site. Groundwater samples were collected from three of the five temporary monitoring wells. Two monitoring wells were not sampled due to insufficient water volume during SI activities. The groundwater samples were analyzed for TCL VOCs, TCL SVOCs, PCBs, priority pollutant metals, barium, total cyanide, and pH. Figure 3 presents the soil boring/probe and monitoring well sample location map.

The results of the SI are presented in the *Comprehensive Site Investigation Report, The Former Willow Street Manufactured Gas Plant Site, 1640 North Kingsbury Portion* (SI Report) (Burns & McDonnell 2005a) and the *Comprehensive Site Investigation Sampling Data, The Former Willow Street Manufactured Gas Plant Site, 1640 North Kingsbury Portion* (Sampling Data) (Burns & McDonnell 2005b). The SI Report established that the subsurface consisted of silty clay overlain by fill and that perched groundwater at the Site met the regulatory definition of a Class II resource groundwater. The SI

Report concluded that source material and soil and groundwater that exceeded TACO Tier 1 ROs for certain constituents were present at the Site. The SI Report was conditionally approved by Illinois EPA in May 2005, pending further delineation of impacts and inclusion of constituents not-in-TACO in the Tier 1 evaluations. The chemicals not-in-TACO were obtained from tables that are dated October 1, 2004 from the Illinois EPA website (Illinois EPA 2004).

1.4.2 Supplemental Site Investigation

In November and December 2004, Burns & McDonnell conducted SSI activities along the River. The objective of the SSI was to collect additional data to further define the nature and extent of impacts along the River. The SSI included the advancement of 14 soil borings, the advancement of three geotechnical soil borings, and the excavation of two test pits. Figure 4 presents the SSI soil boring and test pit locations. Appendix A contains the SSI photo log.

Subsurface soil samples were collected using hollow stem augering equipment. Boring locations were continuously sampled using 2-foot long, 2-inch stainless steel split spoons. Each sample interval was field screened for VOCs using a photoionization detector (PID), and select samples were collected for laboratory analysis. Visual observations of soil type and condition were recorded on drilling log forms. Field classification included principal and minor constituents, observed moisture (if any), soil color, soil texture, PID readings and impacts to the soil. Appendix B contains the SSI soil boring logs.

A stainless steel knife was used to facilitate sample collection from split spoons. Carryover material from previous sampling intervals was removed before sampling. A total of 30 subsurface soil samples were collected from 6 to 22 feet below ground surface (bgs). Soil samples were analyzed for TCL VOCs, TCL SVOCs, and TPH. Table 1 presents the soil analytical results from the SSI. Appendix C contains the SSI sampling data validation memorandum and analytical data. The TACO evaluation of the analytical data obtained during the SSI is discussed in Sections 2.0 and 3.0.

The two test pits were excavated using a track mounted excavator to evaluate the location and condition of the former structures along the River. The test pit size was minimized to the extent practical. Test pits were excavated to a maximum depth of 5 feet bgs. Test pit TP01 was excavated in the west central portion of the Site to identify the location and condition of three former structures. A brick wall, apparently intact, was observed at the north end of the test pit. In the central portion of TP01 a concrete slab was encountered at approximately 4 feet bgs. Fill material consisting of crushed stone, sand, and clay was encountered above the concrete slab. The fill material was visibly impacted with black staining and some areas were also tar coated. Test pit TP02 was excavated approximately 35 feet west of TP01. An abandoned pipe leading to the former 158,000 gallon tar tank was identified. In addition to the abandoned pipe, a metal bottom of the assumed former 158,000 gallon tar tank was also uncovered. Fill material consisting mostly of clay crushed stone, brick, concrete and sand was encountered above the abandoned pipe and former 158,000 gallon tar tank. The fill material was visibly impacted and in some areas near the abandoned pipe and fill material was tar coated within the former 158,000 gallon tar tank.

In addition to the environmental sampling conducted, three borings were advanced to collect geotechnical data. Appendix B contains the geotechnical boring logs (GT01-GT03).

1.5 SITE GEOLOGY AND HYDROGEOLOGY

Based on subsurface investigation conducted during the SI and SSI, the Site consists of silty clay overlain by fill material. The fill unit consists primarily of clay, silty clay, silty sand, sand and gravel with smaller amounts of sandy clay, crushed brick, concrete, wood fragments, cinders, coal, and glass fragments, and was encountered at depths ranging from 2 to 18 feet bgs. Based on borings advanced during the SSI, the fill unit extended to depths of 6 to 18 feet bgs with native silty clay immediately below the fill. The native layer of moderate brown/gray silty clay was encountered at depths ranging from 2 to 18 feet bgs across the Site. In addition, traces of sand and gravel were noted in the native silty clay at the Site. The native silty clay layer was described as brown silty clay, some/trace coarse to fine sand and trace fine gravel from grain size testing. The relative consistency of the unit was variable, ranging from soft to very stiff, and appeared to decrease with depth, then become stiff to very stiff at 35 feet bgs and below.

Groundwater was encountered in 39 soil probe and boring locations at the Site. The depth to water varied throughout the Site from 3 to 16 feet bgs. Water was most often encountered in the silty clay, where the depth to water varied from 7.5 to 16 feet bgs. However, water was encountered in fill material at boring locations adjacent to the river, where the depth to water ranged from 2 to 11.5 feet bgs. Water was encountered within fill in seven of the soil probe or boring locations, all located within the former 17,000,000-ft^3 gas holder, at depths of 3 to 6 feet bgs. Water was encountered within silty sand or sand in three probes outside the former 17,000,000-ft^3 gas holder, at depths ranging from 4 to 5 feet bgs. Former structures and roads are believed to have an effect on the overall hydrogeology of the Site by acting as barriers to prevent or retard groundwater discharge to the River. Based on groundwater elevations and water levels of the River, it is likely that groundwater at the Site flows in the general direction of the River and some groundwater at the Site discharges into the River.

1.6 RECOGNIZED ENVIRONMENTAL CONDITIONS

Based on laboratory analytical results and field observations, as presented in the SI Report (Burns & McDonnell 2005a) and obtained during the SSI, the following constituents were detected at the Site:

- Surface soil contained concentrations of TCL VOCs, TCL SVOCs, PCBs, metals, and total cyanide.
- Subsurface soil contained concentrations of TCL VOCs, TCL SVOCs, PCBs, metals, and total cyanide.
- Groundwater contained concentrations of TCL VOCs, TCL SVOCs [polynuclear aromatic hydrocarbons (PAHs) only], PCBs, metals, and total cyanide.

In addition, source material was identified at the Site based on visual observations and analytical results. The following source material areas were identified:

- The former tar wells;
- The former 100,000-ft^3 gas holder;
- The former 420,000-ft^3 gas holder;
- The center of the former 17,000,000-ft^3 gas holder, north of the former tar wells;
- The vicinity of the possible location of the west valve/weir box;
- The area west of the 17,000,000-ft^3 gas holder, along the River; and
- The area located on the southern portion of the Site, along the River.

A shallow surface soil area that contained a total PCB concentration of 55.6 milligrams per kilogram (mg/kg) (soil sample SP40-001) was remediated on behalf of the Site owner in April 2004 pursuant to the United States Environmental Protection Agency's (USEPA's) self-implementing cleanup and disposal option under Title 40 of the Code of Federal Regulations (CFR) Part 761.61 as presented in the SI Report (Burns & McDonnell 2005a).

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2.0 TIER 1 EVALUATIONS

This section presents a Tier 1 evaluation of all analytical data results in accordance with TACO for residential land use and a construction worker. The Tier 1 evaluations compare analytical data from the SI and the SSI to the appropriate Tier 1 ROs. Twelve soil samples (SP10-001, SB18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58B-003) met the regulatory definition of source material, which is discussed in detail in Section 3.1. Soil samples identified as source material were not included in the Tier 1 evaluation. Figure 5 presents the soil probe, boring, and monitoring well location map.

2.1 LAND USE

The Site is located in a district zoned as a planned manufacturing district (PMD) and planned development (PD) (City of Chicago 2004). Figure 6 presents the surrounding area map. Land use in the area is commercial and industrial. The Site is currently used as a laydown area for unprepared steel and is unpaved. A chain-link fence exists along Kingsbury Street at the Site. The PMD allows certain recreational uses, as well as commercial and industrial uses. Future use of the Site and surrounding property is uncertain based on trends of development in the area.

At present, the Site is surrounded by PD zoning to the south; the River to the west; PD and PMD to the east; and PMD to the north. However, this TACO Tier 1 evaluation is based on a future residential land use.

2.2 WATER USE

The Site is currently used as a laydown area for unprepared steel, which allows for runoff and erosion to both the River and to the storm sewers on Kingsbury Street. In addition, the laydown area allows water from precipitation to collect between the piles of unprepared steel. Recharge of the fill and silty clay units is expected to occur locally and is presumed to be dependent on precipitation. Groundwater encountered at the Site is believed to be perched water with limited groundwater in the native silty clay unit. Based on groundwater elevations and water levels of the River, it is likely that groundwater at the Site flows in the general direction of the River and some groundwater at the Site discharges into the River.

As presented in the SI Report (Burns & McDonnell 2005a), the water-bearing unit at the Site does not meet the regulatory definition of a Class I resource groundwater as defined in 35 IAC, Subtitle F, Part 620 – Groundwater Quality, Section 210 (1997). Depth to shallow groundwater in the native silty clay unit ranged from approximately 3 to 16 feet bgs during SI and SSI activities; however, the additional conditions required for Class I groundwater classification are not met by the silty clay unit. The Site is not located within the minimum setback zone of a potable water supply well. Based on grain size distribution testing performed on the silty clay soil samples, percent fines were 68.1 and 80 percent. The Site has a hydraulic conductivity between 5.37×10^{-9} and 2.43×10^{-9} centimeters per second (cm/sec).

Therefore, groundwater at the Site is considered to be Class II resource groundwater in accordance with 35 IAC, Part 620.

In addition, a well survey was conducted for the Site. The following agencies were contacted in May 2005 as part of the well survey: Illinois State Water Survey, Illinois State Geological Survey, Illinois Department of Public Health, City of Chicago Department of Public Health, Cook County Department of Public Health, City of Chicago Department of Water Quality, and the Illinois EPA-Bureau of Water. Upon reviewing the well survey information obtained for the Site, no wells were located within a 1,000-foot radius of the Site. Appendix D contains the results from well survey information obtained from the agencies and a figure that presents the surrounding area well location map.

The City of Chicago currently obtains drinking water from Lake Michigan. Also, Chicago enacted an ordinance in 1997 that prohibits installation of potable wells. Appendix E contains the City of Chicago Groundwater Ordinance (Section 11-8-390).

2.3 SOIL INGESTION EXPOSURE ROUTE

The following subsections evaluate the soil ingestion exposure route for a residential land use and a construction worker. All of 106 soil samples were evaluated.

2.3.1 Residential Property

All soil samples collected, regardless of depth and including samples collected below the saturated zone, were compared to the Tier 1 and non-TACO chemicals (Illinois EPA 2004) residential soil ingestion ROs. Table 2 presents the data screened against the appropriate Tier 1 and non-TACO ROs.

No samples exceeded the Tier 1 residential ROs for TCL VOCs or total cyanide. All TCL SVOC exceedences were PAHs. The benzo(a)anthracene RO of 0.9 mg/kg was exceeded in 36 samples with concentrations ranging from 1 mg/kg in SB49-001 to 17 mg/kg in SB51-001. The benzo(b)fluoranthene RO of 0.9 mg/kg was exceeded in 38 samples with concentrations ranging from 0.92 mg/kg in SP16-001 to 8.5 mg/kg in SB58-001. The benzo(a)pyrene RO of 0.09 mg/kg was exceeded in 59 samples with concentrations ranging from 0.092 mg/kg in SP13-001 to 16 mg/kg in SB51-001. The benzo(k)fluoranthene RO of 9 mg/kg was exceeded in only one sample, SB58-001, with a concentration of 9.8 mg/kg. The dibenzo(a,h)anthracene RO of 0.09 mg/kg was exceeded in 52 samples with concentrations ranging from 0.099 mg/kg in SB01-002 to 1.6 mg/kg in SB58-001. The indeno(1,2,3-cd)pyrene RO of 0.9 mg/kg was exceeded in 26 samples with concentrations ranging from 0.92 mg/kg in SP53-001 to 6.2 mg/kg in SB51-001.

In addition to the Tier 1 residential soil ingestion exceedences for PAHs, the following exceedences for PCBs, arsenic, chromium, and lead were identified. The total PCBs RO of 1 mg/kg was exceeded in 25 samples with concentrations ranging from 1.004 mg/kg in SB15-001 to 15.014 mg/kg in SP35-001. The arsenic RO of 13 mg/kg was exceeded in four samples with concentrations ranging from 15 mg/kg in SB14-002 and SP37-002 to 20 mg/kg in SP35-001. The chromium RO of 230 mg/kg was exceeded in

two samples with concentrations of 320 mg/kg in SP35-001 and 570 mg/kg in SB04-001. The lead RO of 400 mg/kg was exceeded in three samples with concentrations ranging from 450 mg/kg in SP06-001 to 1,400 mg/kg in SP35-001.

2.3.2 Construction Worker

All soil samples, regardless of depth and including samples collected below the saturated zone, collected were compared to the Tier 1 and non-TACO chemicals (Illinois EPA 2004) construction worker soil ingestion ROs. Table 3 presents the data screened against the appropriate Tier 1 and non-TACO ROs.

Total PCBs and lead were the only compounds and analyte, respectively, that exceeded the Tier 1 construction worker soil ingestion ROs. The total PCBs RO of 1 mg/kg was exceeded in 25 samples with concentrations ranging from 1.004 mg/kg in SB15-001 to 15.014 mg/kg in SP35-001. The lead RO of 400 mg/kg was exceeded in three samples with concentrations ranging from 450 mg/kg in SP06-001 to 1,400 mg/kg in SP35-001.

2.4 SOIL INHALATION EXPOSURE ROUTE

The following subsections evaluate the soil inhalation exposure route for a residential land use and a construction worker. All of 106 soil samples were evaluated.

2.4.1 Residential Property

All soil samples collected, regardless of depth and including samples collected below the saturated zone, were compared to the Tier 1 and non-TACO chemicals (Illinois EPA 2004) residential soil inhalation ROs. Table 4 presents the data screened against the appropriate Tier 1 and non-TACO ROs.

Benzene and chromium were the only compound and analyte, respectively, that exceeded Tier 1 residential soil inhalation levels. The benzene level of 0.8 mg/kg was exceeded in eight samples with detected concentrations ranging from 0.92 mg/kg in SP10-003 to 5.7 mg/kg in SB54-001. The chromium level of 270 mg/kg was exceeded in two samples with concentrations of 320 mg/kg in SP35-001 to 570 mg/kg in SB04-001.

2.4.2 Construction Worker

All soil samples collected, regardless of depth and including samples collected below the saturated zone, were compared to the Tier 1 and non-TACO chemicals (Illinois EPA 2004) construction worker soil inhalation ROs. Table 5 presents the data screened against the appropriate Tier 1 and non-TACO ROs.

Benzene and naphthalene were the only compounds that exceeded Tier 1 construction worker soil inhalation ROs. The benzene RO of 2.2 mg/kg was exceeded in six samples with concentrations of 2.6 mg/kg in SP52-001 and 5.7 mg/kg in SB54-001. The naphthalene RO of 1.8 mg/kg was exceeded in 25 samples with concentrations ranging from 2 mg/kg in SB38-001 to 110 mg/kg in SB54-001.

2.5 SOIL MIGRATION TO GROUNDWATER EXPOSURE ROUTE

The soil migration to groundwater exposure route was conservatively evaluated using all 106 soil samples, regardless of depth and including samples collected below the saturated zone. ROs for total concentrations of inorganics and ionizable organics (2-chlorophenol, 2,4-dichlorophenol, pentachlorophenol, 2,4,5-trichlorophenol, and 2,4,6-trichlorophenol) are based on the site-specific pH. Values for soil pH collected from non-impacted soil samples at the Site ranged from 7.52 to 8.82; therefore, the most conservative of the pH-dependent levels listed in Table D, Appendix B of TACO were used with respect to published pH ranges of 7.25 to 7.74, 7.75 to 8.24, 8.25 to 8.74, and 8.75 to 9.0. The pH-specific soil migration to Class I resource groundwater RO was used to evaluate silver and chromium because TACO regulations do not include a Class II resource groundwater RO for these constituents. Table 6 presents the results for samples compared to the Tier 1 and non-TACO chemicals (Illinois EPA 2004) ROs for the soil migration to groundwater exposure route.

Compounds and analytes that exceeded Tier 1 soil migration to Class II resource groundwater ROs included benzene, ethylbenzene, carbazole, benzo(a)anthracene, naphthalene, chromium, lead, and selenium. The benzene RO of 0.17 mg/kg was exceeded in 13 samples with concentrations ranging from 0.19 mg/kg in SB09-001 to 5.7 mg/kg in SB54-001. The ethlybenzene RO of 19 mg/kg was exceeded in two samples with concentrations of 25 mg/kg in SB54-001 and 30 mg/kg in SB50-002. The carbazole RO of 2.8 mg/kg was exceeded in eight samples with concentrations ranging from 2.9 mg/kg in SP03-001 to 6.8 mg/kg in SB58-001. The benzo(a)anthracene RO of 8 mg/kg was exceeded in six samples with concentrations ranging from 8.6 mg/kg in SB48-001 to 17 mg/kg in SB51-001. The naphthalene RO of 18 mg/kg was exceeded in nine samples with concentrations ranging from 22 mg/kg in SB52-001 to 110 mg/kg in SB54-001.

In addition, compounds that exceeded soil ROs for non-TACO chemicals included 2-methylnaphthalene and 4-methylphenol (Illinois EPA 2004). The 2-methylnaphthalene non-TACO RO of 39 mg/kg was exceeded in three samples with concentrations ranging from 45 mg/kg in SB54-001 to 58 mg/kg in SB25-002. The 4-methylphenol non-TACO RO of 0.66 mg/kg was exceeded in eight samples with concentrations (both non-detected and detected) ranging from 1.1 mg/kg in SP06-003 to 2.2 mg/kg in SB58-001.

The chromium RO of 21 mg/kg (which applies to Class I groundwater since there is not a published value for Class II resource groundwater), was exceeded in eight samples with concentrations ranging from 22 mg/kg in SB38-001 to 320 mg/kg in SP35-001. SPLP chromium analysis was conducted on SB04-001, which contained a total chromium concentration of 570 mg/kg. SPLP chromium was below the Tier 1 RO. TCLP chromium analysis was conducted on soil samples SB04-001, SP06-003, and SP43-002, since the samples were either source characterization samples or since the total chromium concentration was elevated, and was detected below the source criteria level of 5.0 milligrams per liter (mg/L) and the Tier 1 soil migration to Class II resource groundwater level of 1.0 mg/L in all three samples. Since both SPLP and TCLP chromium results are below the relevant Tier 1 RO, regardless of the total chromium concentration, chromium should not be of concern for the soil migration to Class II

resource groundwater exposure route. However, select soil confirmation samples may include SPLP chromium analysis to support this conclusion.

SPLP lead analysis was conducted on SP35-001, which contained a total lead concentration of 1,400 mg/kg, to evaluate soil migration to groundwater. SPLP lead was detected at a concentration of 0.02 mg/L, which is below the Tier 1 RO of 0.1 mg/L. Instead of SPLP lead, TCLP lead analysis was conducted on source characterization samples, including SP06-003 and SP43-002 and was detected in both samples at concentrations of 0.2 mg/L in SP06-003 to 0.21 mg/L in SP43-002. These two results are below the source criteria level of 5.0 mg/L, but are above the Tier 1 soil migration to Class II RO. Therefore, lead in soil must be further evaluated (as presented in Section 4.1).

The total selenium RO of 1.3 mg/kg was exceeded in one sample, SP07-001, with a concentration of 2.8 mg/kg. Source characterization samples SP06-003 and SP43-002 were analyzed for TCLP selenium and both results were non-detect, with a detection limit that was below the Tier 1 soil migration to Class II resource groundwater level of 0.05 mg/L and the source criteria level of 1.0 mg/L. Furthermore, selenium was not detected in any of the groundwater samples collected during the SI (discussed below in Section 2.6). Therefore, the soil and groundwater concentrations are such that the migration of these constituents from soil to groundwater should not result in exceedences of the Class II resource groundwater ingestion level for selenium. Although selenium should not be of concern for the soil migration to Class II resource groundwater exposure route, select soil confirmation samples may include SPLP analysis to support this conclusion.

2.6 GROUNDWATER INGESTION EXPOSURE ROUTE

The Tier 1 and non-TACO chemicals (Illinois EPA 2004) ROs for the Class II resource groundwater ingestion exposure route were compared to groundwater sample results. Table 7 presents the Tier 1 evaluation for the groundwater ingestion exposure route.

All three groundwater samples screened were below the Tier 1 ROs for PCBs and total cyanide. The benzene RO of 0.025 mg/L was exceeded in one sample, MW01-001, at a concentration of 0.21 mg/L. The benzo(a)anthracene RO of 0.00065 mg/L was exceeded in one sample, MW05-001, at a concentration of 0.00076 mg/L. Sample MW05-001 also exceeded Tier 1 ROs of 0.65 mg/L, 0.1 mg/L, and 0.02 mg/L for copper, lead, and thallium at concentrations of 1.2 mg/L, 0.96 mg/L and 0.024 mg/L, respectively.

* * * * *

3.0 EXPOSURE ROUTE EVALUATION

Remediation objectives do not need to be determined for a specific exposure route if it can be demonstrated that the exposure route does not exist according the Subpart C of 35 IAC, Part 742. Before excluding an exposure route, two general criteria must be met: the extent and concentration of the constituents of interest must be characterized and the absence of source material must be demonstrated at the Site. In addition to these general criteria, pathway-specific requirements must be met for each exposure route.

3.1 SOURCE MATERIAL EVALUATION

All soil samples collected during the SI and SSI were included in the TACO source material evaluation. TACO requires the following general criteria be met to demonstrate the absence of source material at a site:

- The sum of the concentrations of all organic contaminants of concern or the TPH concentration shall not exceed the attenuation capacity of the soil, as determined under Section 742.215;
- The concentrations of any contaminants of concern remaining in the soil shall not exceed the soil saturation limit, as determined under Section 742.220;
- The concentrations of any PCBs in the soil shall not exceed 50 mg/kg;
- Any soil which contains contaminants of concern shall not exhibit any of the characteristics of reactivity for hazardous waste or exhibit a pH less than 2.0 or greater than 12.5; and
- Any soil that contains contaminants of concern in the following list of inorganic chemicals and their salts shall not exhibit the characteristics of toxicity for hazardous waste: arsenic, barium, cadmium, chromium, lead, mercury, selenium, or silver, as defined under 35 IAC, Part 721.124.

The soil attenuation capacity is equivalent to the natural organic carbon fraction (f_{oc}) of the soil. The f_{oc} of the soil may be determined on a site-specific basis or TACO default values of 6,000 mg/kg and 2,000 mg/kg may be used for surface (0 to 3 feet bgs) and subsurface (greater than 3 feet bgs) soil, respectively. Since site-specific f_{oc} data was limited, the TACO default values were used to evaluate the soil analytical data. Thirty-eight soil samples were analyzed for TPH and compared to the appropriate default f_{oc} value. Eleven soil samples analyzed for TPH exceeded the soil attenuation capacity with concentrations ranging from 2,589 mg/kg in SB57-001 to 104,100 mg/kg in SB23-003. Table 8 presents the TPH evaluation.

In addition, all organic compound concentrations for each soil sample were summed and compared to the applicable TACO default values for f_{oc}. If a constituent was not detected in a given soil sample, the method detection limit was conservatively used as the constituent concentration for the sample. Four subsurface soil samples (SB18B-002, SB23-003, SB24-002, and SB26-001) exceeded the TACO soil attenuation capacity of 2,000 mg/kg. Tables 9 and 10 present the TACO soil attenuation capacity calculations for surface soil and subsurface soil, respectively.

The soil saturation limit (C_{sat}) for each organic compound that has a melting point below 30 degrees Celsius (°C) was compared to corresponding concentrations in soil samples. The C_{sat} value was not exceeded in any surface or subsurface sample. Tables 9 and 10 present the soil saturation limits evaluation for surface soil and subsurface soil, respectively.

The current total PCB concentrations at the Site are less than the PCB source criteria of 50 mg/kg. A surface soil area containing a total PCB concentration of 55.6 mg/kg (in the vicinity of soil sample SP40-001) was remediated on behalf of the Site owner in April 2004 pursuant to USEPA's self-implementing cleanup and disposal option under Title 40 CFR Part 761.61 as presented in the SI Report (Burns & McDonnell 2005a). Tables 9 and 10 present the total PCB concentration comparison for surface soil and subsurface soil, respectively.

It was determined from visual observation (i.e. using a PID and combustible gas indicator) that the material sampled at the Site was not unstable or explosive, did not generate toxic gases and did not respond violently with water. Table 11 presents reactive cyanide and reactive sulfide.

Table 12 presents the soil pH results in the samples. Sample pH ranged from 7.28 to 10.2; therefore, none of the samples meet the regulatory definition of source material based on pH.

TCLP analysis was performed on selected soil samples for RCRA metals. Results were compared to concentrations that define source material criteria. RCRA metal toxicity characteristic criteria under 35 IAC Part 721, Section 124 were not exceeded in any samples. Table 13 presents the toxicity characteristic evaluation.

Based on the source material evaluation above, the following source material areas were identified:

- The former tar wells;
- The former 100,000-ft^3 gas holder;
- The former 420,000-ft^3 gas holder;
- The center of the former 17,000,000-ft^3 gas holder, north of the former tar wells;
- The vicinity of the possible location of the west valve/weir box;
- The area west of the 17,000,000-ft^3 gas holder, along the River; and
- The area located on the southern portion of the Site, along the River.

3.2 SOIL INGESTION EXPOSURE ROUTE

As discussed in Sections 2.3.1 and 2.3.2, Tier 1 ROs for a residential land use and a construction worker were exceeded in surface and subsurface soil samples. Therefore, the soil ingestion exposure route cannot be eliminated and will be further evaluated.

3.3 SOIL INHALATION EXPOSURE ROUTE

As discussed in Section 2.4.1 and 2.4.2, Tier 1 ROs for a residential land use and a construction worker were exceeded in surface and subsurface soil samples. Therefore, the soil inhalation exposure route cannot be eliminated and will be further evaluated.

3.4 GROUNDWATER INGESTION EXPOSURE ROUTE

The groundwater exposure route is divided into two components: 1) soil migration to groundwater or the soil component and 2) groundwater ingestion or the groundwater component.

3.4.1 Soil Component

As discussed in Section 2.5, Class II resource groundwater Tier 1 ROs were exceeded. Therefore, the soil migration to groundwater exposure route cannot be eliminated and will be further evaluated.

3.4.2 Groundwater Component

As discussed in Section 2.6, Class II resource groundwater Tier 1 ROs were exceeded. Therefore, the groundwater ingestion exposure route cannot be eliminated and will be further evaluated.

* * * * *

4.0 FURTHER EVALUATION

Tier 1 exceedences were further evaluated using risk based corrective action (RBCA) equations presented in TACO, Appendix C, Table C and site-specific information to predict groundwater concentrations at the River and Tier 3 evaluations were also conducted, when applicable. The objectives of this further evaluation was to eliminate constituents of concern, if possible. The soil and groundwater components of groundwater ingestion were evaluated further by predicting the groundwater concentration at the River associated with the soil or groundwater concentration at the point of impact. Although a further evaluation of total chromium and total selenium in soil cannot be conducted since the RBCA equations do not address these inorganics, these two compounds are most likely not of concern. However, they will be addressed by selectively including them in soil confirmation sample analyses. A Tier 3 evaluation of the residential population and utility and construction workers was performed to further evaluate the ingestion and inhalation pathways.

4.1 FURTHER EVALUATION OF THE SOIL COMPONENT OF THE GROUNDWATER INGESTION EXPOSURE ROUTE

Benzene, ethylbenzene, carbazole, benzo(a)anthracene, naphthalene, total chromium, TCLP lead and total selenium exceeded Tier 1 ROs for the soil migration to groundwater exposure route. In addition, 2-methylnaphthalene and 4-methylphenol exceeded soil ROs for non-TACO chemicals (Illinois EPA 2004). Therefore, benzene, ethylbenzene, carbazole, benzo(a)anthracene, naphthalene, and TCLP lead were further evaluated using RBCA equations and site-specific information to predict groundwater concentrations, in accordance with 35 IAC, Part 742.810, at the River. The predicted groundwater concentrations were compared to Tier 1 Class II groundwater ingestion levels and surface water quality standards set forth in 35 IAC, Part 302. The River is classified as a secondary contact and indigenous life stream pursuant to 35 IAC Part 303. Illinois water quality standards in 35 IAC, Part 302, Subpart D: Secondary Contact and Indigenous Aquatic Life Standards are applicable to the River. Criteria for organics are not available for the River; therefore, the General Use Water Quality Standards (35 IAC, Section 302 Subpart B) were used for comparison.

Although a further evaluation of 2-methylnaphthalene, 4-methylphenol, total chromium and total selenium in soil cannot be conducted since the RBCA equations do not address these constituents, these constituents are most likely not of concern. Furthermore, 2-methylnaphthalene, 4-methylphenol, total chromium and total selenium are not present in groundwater samples at concentrations that exceed Tier 1 Class II groundwater ingestion ROs. Nonetheless, they will be addressed by selectively including them in soil confirmation sample analyses.

The following site-specific information was used to predict the groundwater concentrations at the River for the Tier 1 RO exceedences for the soil migration to groundwater exposure route:

Site-Specific Information	
Soil Type	Silty Clay
Hydraulic Gradient (i)	0.0126 cm/cm
Hydraulic Conductivity (K)	5.37×10^{-9} cm/s*
Source Width-Vertical (S_d)	2.0 m
Source Width – Horizontal (S_w)	1.0 m
Organic Carbon Content (f_{oc})	0.002 g/g

* Site geophysical testing results show that the hydraulic conductivity is 5.37×10^{-9} cm/s. The K value from the Site is too low to be used by TACO Plus!™; therefore, a conservative value of 5.37×10^{-8} cm/s was used in the calculations.

Benzene exceeded the Tier 1 soil migration to groundwater RO in thirteen samples (SP06-001, SP09-001, SP10-002, SP10-003, SB25-001, SB25-002, SB32-001, SB32-002, SB50-002, SB51-001, SB52-001, SB53-002, and SB54-001). The predicted groundwater concentrations of benzene at the River ranged from 6.53E-260 mg/L to 1.91E-54 mg/L and were all well below the associated surface water quality standard of 0.860 mg/L and the Tier 1 Class II groundwater ingestion RO of 0.025 mg/L.

Ethylbenzene exceeded the Tier 1 soil migration to groundwater RO in two samples (SB50-002 and SB54-001). The predicted groundwater concentrations of ethylbenzene at the River are 3.16E-272 mg/L and 8.49E-101 mg/L and were both well below the associated surface water quality standard of 0.014 mg/L and the Tier 1 Class II groundwater ingestion RO of 1.0 mg/L.

Carbazole exceeded the Tier 1 soil migration to groundwater RO in eight samples (SP03-001, SB09-001, SB19-001, SB24-001, SB25-002, SB51-001, SB53-002, and SB58-001). A Tier 1 Class II groundwater ingestion RO and a surface water quality standard are not available for carbazole. However, the predicted concentrations of carbazole at the River ranged from 4.50E-03 mg/L to 3.47E-01 mg/L and were all well below the groundwater objective concentration used to calculate the Tier 1 soil migration to Class II groundwater RO of 0.02 mg/L.

Benzo(a)anthracene exceeded the Tier 1 soil migration to groundwater RO in six samples (SB25-002, SB47-001, SB48-001, SB51-001, SB53-002, and SB58-001). The predicted groundwater concentrations of benzo(a)anthracene at the River ranged from 3.16E-193 mg/L to 2.59E-43 mg/L and were all well below the Tier 1 Class II groundwater ingestion RO of 0.00065 mg/L. A surface water quality standard is not available for benzo(a)anthracene.

Naphthalene exceeded the Tier 1 soil migration to groundwater RO in nine samples (SP06-002, SP10-003, SB25-002, SB47-001, SB50-002, SB51-001, SB52-001, SB53-002, and SB54-001). The predicted groundwater concentrations of naphthalene at the River ranged from 0.00 mg/L to 5.52E-96 mg/L and were all well below the Tier 1 Class II groundwater ingestion RO of 0.22 mg/L. A surface water quality standard is not available for naphthalene.

TCLP lead exceeded the Tier 1 soil migration to groundwater RO in two samples (SP06-003 and

SP43-002). The predicted groundwater concentrations of lead at the River of 1.74E-03 mg/L and 6.01E-03 mg/L were both well below the Tier 1 Class II groundwater ingestion RO and surface water quality standard of 0.1 mg/L.

The following table summarizes the RBCA evaluation pertaining to soil that exceeded Tier 1 Class II groundwater ingestion levels (soil component) at the point of impact:

Point	Constituent	Conc. (mg/kg)	Conc. in GW (mg/L)	Predicted Conc. At the River (mg/L)	Class II GW Criteria (mg/L)	SW Criteria (mg/L)	Less Than Criteria
SP06-002	Benzene	0.78	3.21	1.20E-169	0.025	0.860	YES
SP09-001	Benzene	0.19	0.782	5.37E-113	0.025	0.860	YES
SP10-002	Benzene	3.6	14.82	2.85E-178	0.025	0.860	YES
SP10-003	Benzene	0.92	3.79	7.29E-179	0.025	0.860	YES
SP25-001	Benzene	1.5	6.174	2.46E-253	0.025	0.860	YES
SP25-002	Benzene	0.22	0.906	3.60E-254	0.025	0.860	YES
SP32-001	Benzene	5.2	21.4	4.41E-259	0.025	0.860	YES
SP32-002	Benzene	0.77	3.17	6.53E-260	0.025	0.860	YES
SP50-002	Benzene	2.9	11.9	1.56E-54	0.025	0.860	YES
SP51-001	Benzene	3.7	15.2	1.91E-54	0.025	0.860	YES
SP52-001	Benzene	2.6	10.7	7.22E-149	0.025	0.860	YES
SP53-002	Benzene	0.21	0.864	1.08E-55	0.025	0.860	YES
SP54-001	Benzene	5.7	23.5	1.58E-148	0.025	0.860	YES
SB50-002	Ethylbenzene	30	40.122	8.49E-101	1.0	0.014	YES
SB54-001	Ethylbenzene	25	33.345	3.16E-272	1.0	0.014	YES
SP03-001	Carbazole	2.9	0.421	4.50E-03	NA	NA	YES
SB09-001	Carbazole	3.7	0.54	6.09E-02	NA	NA	YES
SB19-001	Carbazole	3.2	0.464	5.45E-03	NA	NA	YES
SB24-001	Carbazole	4.1	0.5945	6.77E-03	NA	NA	YES
SB25-002	Carbazole	5.7	0.817	7.44E-03	NA	NA	YES
SB51-001	Carbazole	4.8	0.688	3.26E-01	NA	NA	YES
SB53-002	Carbazole	5.1	0.731	3.47E-01	NA	NA	YES
SB58-001	Carbazole	6.8	0.986	3.24E-01	NA	NA	YES
SB25-002	Benzo(a)anthracene	14	0.017	3.16E-193	0.00065	NA	YES
SB47-001	Benzo(a)anthracene	9	0.0108	3.07E-75	0.00065	NA	YES
SB48-001	Benzo(a)anthracene	8.6	0.0103	1.36E-43	0.00065	NA	YES
SB51-001	Benzo(a)anthracene	17	0.0204	2.59E-43	0.00065	NA	YES
SB53-002	Benzo(a)anthracene	14	0.0168	2.14E-43	0.00065	NA	YES

Point	Constituent	Conc. (mg/kg)	Conc. in GW (mg/L)	Predicted Conc. At the River (mg/L)	Class II GW Criteria (mg/L)	SW Criteria (mg/L)	Less Than Criteria
SB58-001	Benzo(a)anthracene	14	0.0168	4.01E-53	0.00065	NA	YES
SP06-002	Naphthalene	27	6.58	6.77E-294	0.22	NA	YES
SP10-003	Naphthalene	27	6.58	7.52E-310	0.22	NA	YES
SB25-002	Naphthalene	28	6.83	0.00E+00	0.22	NA	YES
SB47-001	Naphthalene	33	8.04	1.76E-168	0.22	NA	YES
SB50-002	Naphthalene	44	9.04	3.90E-96	0.22	NA	YES
SB51-001	Naphthalene	67	13.80	5.52E-96	0.22	NA	YES
SB52-001	Naphthalene	22	5.36	5.73E-259	0.22	NA	YES
SB53-002	Naphthalene	41	9.99	4.01E-96	0.22	NA	YES
SB54-001	Naphthalene	110	22.6	2.41E-258	0.22	NA	YES
SP06-003	TCLP Lead	NA	0.2*	6.01E-03	0.1	0.1	YES
SB43-002	TCLP Lead	NA	0.21*	1.74E-03	0.1	0.1	YES

Note: (1) NA – Not Available.

Table 14 presents predicted groundwater concentrations compared to surface water quality standards and Tier 1 Class II groundwater ingestion ROs. Figure 7 presents the Tier 1 soil migration to Class II groundwater exceedence map with distances from the evaluated soil sample locations to the edge of the downgradient River. Appendix F presents the supporting information and the RBCA calculations generated by TACO Plus!™ Version 1.0.

In conclusion, further evaluation of Tier 1 soil migration to Class II groundwater exceedences was performed using site-specific information to predict groundwater and surface water concentrations of benzene, ethylbenzene, carbazole, benzo(a)anthracene, naphthalene, and lead at the River. Predicted concentrations are all well below applicable criteria.

4.2 EVALUATION OF THE GROUNDWATER INGESTION EXPOSURE ROUTE

As discussed in Section 2.6, benzene, benzo(a)anthracene, copper, lead, and thallium exceeded the Tier 1 ROs for the groundwater component of the groundwater ingestion exposure route. Therefore, further evaluation utilizing the RBCA equations and site-specific information as presented in Section 4.1, in accordance with 35 IAC, Part 742.810, was performed to predict groundwater and surface water concentrations at the River. The evaluations were generated by TACO Plus!™ Version 1.0.

Benzene exceeded the Tier 1 Class II groundwater ingestion RO at MW01. The predicted groundwater concentration of benzene at the River of 0.025 mg/L is well below the surface water quality standard of 0.860 mg/L and the Tier 1 Class II groundwater ingestion RO of 0.025 mg/L.

Benzo(a)anthracene, copper, lead, and thallium exceeded the relevant Tier 1 Class II groundwater ingetion ROs at MW05. Predicted groundwater concentrations of benzo(a)anthracene, copper, lead, and thallium at the River are all well below the Tier 1 Class II groundwater ingestion levels of 0.00065 mg/L, 0.65 mg/L, 0.1 mg/L, and 0.2 mg/L, respectively and applicable surface water quality standards of 1.0 mg/L for copper and 0.1 mg/L for lead. Surface water quality standards are not available for benzo(a)anthracene and thallium.

Table 15 presents the calculated groundwater concentrations at the River compared to the Tier 1 Class II groundwater ingestion levels. Table 16 presents the calculated groundwater concentrations at the River compared to the surface water quality standards. Figure 8 presents the Tier 1 Class II groundwater ingestion exceedence map with distances from the evaluated groundwater monitoring well locations to the edge of the downgradient River. Appendix G presents the supporting information and the RBCA calculations generated by TACO Plus!^{TM} Version 1.0.

The following table summarizes the RBCA evaluation pertaining to groundwater that exceeded Class II groundwater ingestion levels at the point of impact:

Point	**Constituent**	**Conc. (mg/kg)**	**Conc. in GW (mg/L)**	**Predicted Conc. At the River (mg/L)**	**Class II GW Criteria (mg/L)**	**SW Criteria (mg/L)**	**Less Than Criteria**
MW01	Benzene	NA	0.21	2.63E-73	0.025	0.860	YES
MW05	Benzo(a)anthracene	NA	0.00076	6.06E-225	0.00065	NA	YES
MW05	Copper	NA	1.2	6.83E-03	0.65	1.0	YES
MW05	Lead	NA	0.96	5.47E-03	0.1	0.1	YES
MW05	Thallium	NA	0.024	1.37E-04	0.02	NA	YES

Notes: (1) NA – Not Available.

The Site, based on the groundwater modeling results, does not impact the River. The groundwater ordinance adopted by the City of Chicago prohibiting installation of potable groundwater wells serves as an institutional control to ensure that groundwater within the Site is not used as a potable water source. Therefore, with the understanding that the City of Chicago groundwater ordinance prohibits potable well installation in accordance with 35 IAC, Part 742.1015, the groundwater pathway is eliminated. Furthermore, since predicted groundwater impacts above ROs are within the Site, notification to downgradient property owners is not required to use the ordinance to prevent groundwater use. Implementation of the ordinance as a means of preventing ingestion of groundwater at the Site is further discussed in Section 5.

4.3 TIER 3 EVALUATION OF SOIL INGESTION AND INHALATION EXPOSURE ROUTES

A Tier 3 risk based remediation is recommended for unrestricted residential land use and utility and construction worker use at the Site. A Tier 3 evaluation was performed to further evaluate the ingestion and inhalation pathways for soil that will not be removed during remedial action activities. This evaluation was developed from subsurface soil data from SI soil samples collected in February 2002. The evaluation is limited to exposure to soil through the soil ingestion, soil dermal contact, and soil inhalation exposure pathways. The evaluation excludes the portion of the Site in the area of the 30-foot setback from the bank of the River.

The Tier 3 risk-based evaluation was conducted using the formal risk assessment approach found in the USEPA's *Risk Assessment Guidance for Superfund, Volume 1, Human Health Evaluation Manual (Part A)* (USEPA 1989). However, the sample data sets used to conduct this Tier 3 evaluation were limited since they exclude soil samples collected in soil that will be removed during remediation. Once remedial activities are completed, a formal risk assessment will be performed with all remaining SI soil samples and the confirmation samples from remedial activities to accurately evaluate the Site for future residential land use and utility and construction worker populations. Appendix H presents the Tier 3 risk evaluation.

The Tier 3 risk evaluation is being submitted to obtain Illinois EPA approval of scenarios, human exposure factors (both default values and assumptions), and toxicity values used. The Tier 3 evaluation was performed for future resident, utility worker, and construction worker receptors following soil removal during remedial action activities. The conservative assumption was made that if human health risk is acceptable for a resident receptor, it will also be acceptable for a passerby receptor. Therefore, exposure for a passerby was not evaluated. These scenarios and risk assessment variables will be used to conduct a formal risk assessment that incorporates all post-remediation sampling data. ROs for soil ingestion and inhalation will be developed based upon the risk assessment. This risk assessment, ROs, and remedial activities will all be contained in the RACR.

* * * * *

5.0 REMEDIATION OBJECTIVES AND REMEDIAL ACTIONS

This section presents remediation objectives and remedial actions proposed for the Site. Figure 9 presents the proposed soil excavation map.

5.1 REMEDIATION OBJECTIVES

As discussed during the TACO evaluation, certain compounds and analytes in the soil and groundwater exceed applicable Tier 1 soil ingestion ROs, Tier 1 soil inhalation ROs, Tier 1 soil migration to Class II groundwater ROs and Tier 1 Class II groundwater ingestion ROs. However, based on modeling, off-site groundwater and surface water will not be impacted as a result of the Site. Nonetheless, to provide for potential future use of the Site as residential land use, the following remediation goals have been established:

Outside of the 30-foot Setback along the North Branch of the Chicago River

- Eliminate source material at the Site to the extent practical by removal of source material;
- Prevent exposure to residential, utility and construction worker receptors via the ingestion and inhalation exposure routes by removal of the impacted soil to levels established in the Tier 3 risk evaluation included in the SSI/ROR/RAP and develop a post-removal Tier 3 risk assessment to be presented in the RACR; and
- Prevent ingestion of groundwater at the Site by relying on the City of Chicago ordinance prohibiting the installation of potable groundwater wells in the future.

Within the 30-foot Setback along the North Branch of the Chicago River

- Eliminate source material at the Site to the extent practical by removal of source material;
- Prevent exposure to residential and construction worker receptors via the ingestion and inhalation exposure routes by a combination of the following:
    - removal of impacted soil to meet Tier 1 ROs
    - installation of an engineered barrier in the setback zone, as needed to meet Tier 1 ROs; and
- Prevent ingestion of groundwater at the Site by relying on the City of Chicago ordinance prohibiting the installation of potable groundwater wells in the future.

5.2 REMEDIAL ACTIONS

Remedial actions will include the following main components:

- Site preparation;
- Waste characterization;
- Air monitoring during remediation activities;
- Excavation, stockpiling, offsite disposal of impacted soils and backfilling;
- Confirmation soil sampling;
- Management of decontamination water and potential stormwater runon/runoff; and

- Demobilization and Site restoration.

5.2.1 Site Preparation

Site preparation activities will be implemented before excavation begins and will consist of the following activities:

- Installation of temporary fencing;
- Installation of carbon filament fabric over fencing to limit odor and dust emissions from the Site;
- Coordination of delivery and set up of Site trailer;
- Installation of temporary electrical utilities and telephone lines to work areas and Site trailer;
- Location of all buried utilities; and
- Installation of air monitoring equipment and pre-activity air sampling, as allowed.

5.2.2 Waste Characterization

Waste characterization samples will be collected for analysis from the Site during remedial activities, as needed. The composite soil sample will be analyzed for TCLP pesticides/herbicides, PCBs, R-Code (TCLP VOCs, TCLP SVOCs, TCLP metals, total cyanide, paint filter, flashpoint, reactive sulfide, percent ash, total solids, total phenols, water reactivity, soil pH and physical appearance), benzene, toluene, ethylbenzene, and total xylenes (BTEX), PAHs, reactive cyanide, LN Panel and F-Code solvent scan. Water generated during excavation will be analyzed for TCLP pesticides/herbicides, TCLP VOCs, TCLP SVOCs, TCLP metals, paint filter, flashpoint, reactive cyanide, reactive sulfide, total phenols PCBs, pH and F-Code solvent scan. All necessary soil and water disposal permits will be prepared and obtained for the Site remediation activities.

5.2.3 Ambient Air Monitoring

An ambient air monitoring program will be implemented during remedial activities and will be designed to ensure that the levels of constituents of concern in the air associated with the remediation activities are below levels that might cause adverse health effects to the surrounding community. The monitoring plan and the associated action levels are designed to ensure that average exposure levels over the course of the remediation are maintained below levels that would cause any acute or chronic health effects. In addition, the monitoring plan and action levels are designed to prevent the occurrence of any peak concentrations that could cause acute reactions.

The program will consist of real-time air monitoring and collection of 24-hour timed-averaged ambient air samples. Real-time air monitoring will provide instantaneous data to ensure safe conditions are maintained for the surrounding community. Monitoring of onsite worker health and safety is addressed in a separate *Site Health and Safety Plan* (Burns & McDonnell 2002). The real-time monitoring data will be used as the basis for field decisions regarding the need to immediately implement dust or vapor control measures should levels exceed pre-determined immediate action levels. Time-averaged air sampling data will be used to validate the measurements made by the real-time monitoring system. In addition, the time-averaged monitoring data will be used to calculate running-average air concentrations for each of the monitored constituents.

Real-time ambient air monitoring will be performed around the perimeter of the Site. The real-time ambient air monitoring will consist of a gas chromatograph (GC) and/or a personal DataRam. In addition, a meteorological monitoring system will collect data continuously. Real-time monitoring will also consist of notation of odors and visible dust emissions identified by field personnel to help minimize the presence of nuisance odors and dust that may be emitted during excavation and removal activities.

To supplement the real-time monitoring and assist in evaluating any long-term health effects, time-averaged ambient air samples will be periodically collected at the perimeter of the Site. The time-averaged air samples will be analyzed for constituents of concern (BTEX, PAHs, and PM_{10}). BTEX monitoring will be performed using fixed ambient air collection devices (Summa® canisters). PAHs and PM_{10} monitoring will be accomplished using high volume sampling equipment. USEPA method TO-15, TO-13A and 40 CFR 50 Appendix J will be used respectively to analyze for BTEX, PAHs, and PM_{10}.

5.2.4 Excavation, Stockpiling, Offsite Disposal and Backfilling

Remedial activities at the Site will consist of the excavation of all surface soil (0 to 3 feet bgs) at the Site, excavation of source material to the extent practicable, excavation of subsurface soil in certain impacted areas, and installation of an engineered barrier, including placement of 3 feet of imported non-impacted backfill material in the 30-foot setback zone located along the River. Figure 9 presents the proposed excavation map.

The total estimated volume of material to be removed and disposed of is approximately 70,000 tons. This non-hazardous special waste material will be segregated, loaded into end-dump trucks, manifested and transported to the Waste Management CID Biopile Subtitle D Landfill or Waste Management CID Area 4 Subtitle C Landfill as special waste. The excavation will be backfilled with soil, sand, stone aggregate, coarse aggregate, or a combination thereof. All backfill material will be placed and compacted, if needed, from approximately 6 inches bgs to the bottom of the excavation. Coarse aggregate will be placed and compacted from the ground surface to approximately 6 inches bgs.

An engineered barrier will be installed in Area A, if needed, at the Site as shown on Figure 9. A 40-mil high density polyethylene (HDPE) liner covered by 3 feet of imported fill will be installed in Area A to serve as an engineered barrier preventing ingestion and inhalation of impacted subsurface soil, if necessary. Also, 3 feet of imported non-impacted fill material will be placed in the remainder of the setback zone to serve as an engineered barrier to prevent ingestion of impacted subsurface soil.

Trucking will occur between the hours of 7 a.m. and 4 p.m. If needed, trucks will be decontaminated with a power wash prior to leaving the Site. If excavation or decontamination water is generated, it will be collected in an onsite temporary storage tank for offsite disposal. A street sweeper will clean residue left by truck tires on nearby streets on a routine basis.

Dust will be controlled by spraying water on the truck routes, excavations and/or the stockpiles, as necessary. If odors are noted at the Site boundaries or emissions of pre-established action levels, the source of the odors or emissions will be identified and sprayed with foam or covered.

Construction activities will be documented. Daily reports, activity logs, manifests and other pertinent data will be generated and maintained.

5.2.5 Confirmation Soil Sampling

Confirmation samples will be collected at the Site to demonstrate that all source material (conservatively defined based on default values presented in TACO) is removed and to establish post-excavation conditions. Composite confirmation samples will be collected along the sidewalls and bottom of excavation areas and will be analyzed for a variety of analytical parameters. In general, confirmation samples will be collected at the bottom of each sampling grid that is excavated to 3 feet bgs. In addition, confirmation samples will be collected at the bottom and along the sidewalls (if possible) in areas that are excavated deeper than 3 feet bgs. Each composite sample will consist of five aliquots that will be homogenized and placed in sampling jars, with the exception of VOC samples, which will be collected as a discrete sample in the center of each sampling area. Figure 10 presents the proposed confirmation sample location map.

5.2.6 Management of Decontamination Water and Potential Stormwater Runon/Runoff

Decontamination water, excavation water, and rainwater that accumulate in the removal area will be managed to prevent it from impacting the Site and surrounding areas. Accumulated water is intended to be pumped to a temporary onsite holding tank for containment and disposed of offsite.

5.2.7 Demobilization and Site Restoration

After completion of excavation backfill and grading activities, the Site will be restored as follows:

- Decontaminate potentially impacted equipment.
- Remove temporary Site trailer.
- Remove filament fabric from Site fencing and temporary fencing.

5.3 SCHEDULE

Excavation activities began in December 2004 and should be completed within twelve to eighteen months.

* * * * *

6.0 REFERENCES

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United States Geological Survey 7.5-Minute Quadrangle Map for the Chicago Loop, Illinois Quadrangle (1926 topographic map, revised from aerial photographs 1988, field checked 1992, and edited 1993).

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TABLES
THE FORMER WILLOW STREET STATION MANUFACTURED GAS PLANT SITE, 1640 NORTH KINGSBURY PORTION

Table 1
Soil Analytical Results - Supplemental Site Investigation 2004
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SB46-001 10 - 12	SB46-002 16 -18	SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10
TCL Volatiles (mg/kg)					
Acetone	0.036 U	0.031 U	0.035 U	0.032 U	0.036 U
Benzene	0.0073 U	0.0062 U	0.05	0.0065 U	0.0072 U
Bromodichloromethane	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
Bromoform	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
Bromomethane	0.015 U	0.012 U	0.014 U	0.013 U	0.014 U
2-Butanone	0.015 U	0.012 U	0.014 U	0.013 U	0.014 U
Carbon Disulfide	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
Carbon Tetrachloride	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
Chlorobenzene	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
Chloroethane	0.015 U	0.012 U	0.014 U	0.013 U	0.014 U
Chloroform	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
Chloromethane	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
Dibromochloromethane	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
1,1-Dichloroethane	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
1,2-Dichloroethane	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
1,1-Dichloroethene	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
cis-1,2-Dichloroethene	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
trans-1,2-Dichloroethene	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
1,2-Dichloropropane	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
cis-1,3-Dichloropropene	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
trans-1,3-Dichloropropene	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
Ethylbenzene	0.0073 U	0.0062 U	0.33	0.0065 U	0.0072 U
2-Hexanone	0.015 U	0.012 U	0.014 U	0.013 U	0.014 U
4-Methyl-2-Pentanone	0.015 U	0.012 U	0.014 U	0.013 U	0.014 U
Methylene Chloride	0.015 U	0.012 U	0.014 U	0.013 U	0.014 U
Methyl tert-butyl ether	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
Styrene	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
1,1,2,2-Tetrachloroethane	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
Tetrachloroethene	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
Toluene	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
1,1,1-Trichloroethane	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
1,1,2-Trichloroethane	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
Trichloroethene	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
Vinyl Chloride	0.0073 U	0.0062 U	0.0071 U	0.0065 U	0.0072 U
Xylenes, Total	0.015 U	0.012 U	0.26	0.013 U	0.014 U

NOTES:
(1) TCL - Target compound list
(2) mg/kg - milligrams per kilogram.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

Table 1 (Continued)
Soil Analytical Results - Supplemental Site Investigation 2004
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SB46-001 10 - 12	SB46-002 16 -18	SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10
TCL Semivolatiles (mg/kg)					
Bis(2-chloroethoxy)methane	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
Bis(2-chloroethyl)ether	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
Bis(2-ethylhexyl)phthalate	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
4-Bromophenyl phenyl ether	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
Butyl benzyl phthalate	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
Carbazole	0.87	0.42 U	1.1	0.41 U	0.57
4-Chloro-3-methylphenol	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
4-Chloroaniline	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
2-Chloronaphthalene	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
2-Chlorophenol	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
4-Chlorophenyl phenyl ether	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
Dibenzofuran	1.8	0.42 U	2.5	0.41 U	1.5
1,2-Dichlorobenzene	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
1,3-Dichlorobenzene	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
1,4-Dichlorobenzene	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
3,3´-Dichlorobenzidine	0.86 U	0.83 U	0.88 U	0.82 U	0.89 U
2,4-Dichlorophenol	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
Diethyl phthalate	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
Dimethyl phthalate	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
Di-n-butyl phthalate	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
2,4-Dimethylphenol	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
4,6-Dinitro-2-methylphenol	2.1 U	2 U	2.1 U	2 U	2.2 U
2,4-Dinitrophenol	2.1 U	2 U	2.1 U	2 U	2.2 U
2,4-Dinitrotoluene	0.22 U	0.21 U	0.23 U	0.21 U	0.23 U
2,6-Dinitrotoluene	0.22 U	0.21 U	0.23 U	0.21 U	0.23 U
Di-n-octyl phthalate	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
Hexachlorobenzene	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
Hexachlorobutadiene	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
Hexachlorocyclopentadiene	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
Hexachloroethane	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
Isophorone	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
2-Methylnaphthalene	2.8	0.42 U	27	0.41 U	2.5
2-Methylphenol	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
4-Methylphenol	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
2-Nitroaniline	2.1 U	2 U	2.1 U	2 U	2.2 U
3-Nitroaniline	2.1 U	2 U	2.1 U	2 U	2.2 U
4-Nitroaniline	2.1 U	2 U	2.1 U	2 U	2.2 U
Nitrobenzene	0.22 U	0.21 U	0.23 U	0.21 U	0.23 U
2-Nitrophenol	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
4-Nitrophenol	2.1 U	2 U	2.1 U	2 U	2.2 U
N-Nitrosodi-n-propylamine	0.22 U	0.21 U	0.23 U	0.21 U	0.23 U
N-Nitrosodiphenylamine	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
2, 2'-Oxybis(1-Chloropropane)	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
Pentachlorophenol	2.1 U	2 U	2.1 U	2 U	2.2 U
Phenol	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
1,2,4-Trichlorobenzene	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U
2,4,5-Trichlorophenol	0.86 U	0.83 U	0.88 U	0.82 U	0.89 U
2,4,6-Trichlorophenol	0.43 U	0.42 U	0.44 U	0.41 U	0.44 U

NOTES:
(1) TCL - Target compound list
(2) mg/kg - milligrams per kilogram.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

Table 1 (Continued)
Soil Analytical Results - Supplemental Site Investigation 2004
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SB46-001 10 - 12	SB46-002 16 -18	SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10
PAHs (mg/kg)					
Acenaphthene	4.9	0.17	22	0.074	5.9
Acenaphthylene	0.73	0.033	2.7	0.031 U	0.99
Anthracene	6.4	0.19	11	0.031 U	9.5
Benzo(a)anthracene	5.8	0.17	9	0.032	8.6
Benzo(b)fluoranthene	4.5	0.075	4.5	0.031 U	5.5
Benzo(k)fluoranthene	4.1	0.12	5.1	0.031 U	6.2
Benzo(g,h,i)perylene	2.7	0.046	3.9	0.031 U	5.5
Benzo(a)pyrene	5.9	0.086	4.6	0.031 U	9.8
Chrysene	5.4	0.2	8	0.048	8.1
Dibenzo(a,h)anthracene	0.83	0.031 U	0.91	0.031 U	1.2
Fluoranthene	13	0.42	20	0.072	20
Fluorene	3.8	0.13	13	0.04	3.5
Indeno(1,2,3-cd)pyrene	2.4	0.035	2.5	0.031 U	4.2
Naphthalene	6.5	0.4	33	0.13	5.3
Phenanthrene	17	0.6	43	0.12	21
Pyrene	14	0.52	26	0.088	22
TPH (mg/kg)					
TPH (Gasoline)	26 U	24 U	27 U	25 U	25 U
TPH (Diesel)	140	24 U	100	25 U	83
TPH (Oil)	410	24 U	97	25 U	270

NOTES:
(1) PAHs - Polynuclear Aromatic Hydrocarbons
(2) mg/kg - milligrams per kilogram.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) TPH - Total Petroleum Hydrocarbons

Table 1 (Continued)
Soil Analytical Results - Supplemental Site Investigation 2004
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SB48-002 18 - 20	SB49-001 8 - 10	SB49B-001 14 - 16	SB50-001 10 - 12	SB50-002 14 - 16
TCL Volatiles (mg/kg)					
Acetone	0.03 U	0.029 U	0.031 U	0.082	1.9 U
Benzene	0.0059 U	0.0059 U	0.0063 U	0.13	2.9
Bromodichloromethane	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
Bromoform	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
Bromomethane	0.012 U	0.012 U	0.013 U	0.026 U	0.75 U
2-Butanone	0.012 U	0.012 U	0.013 U	0.026 U	0.75 U
Carbon Disulfide	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
Carbon Tetrachloride	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
Chlorobenzene	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
Chloroethane	0.012 U	0.012 U	0.013 U	0.026 U	0.75 U
Chloroform	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
Chloromethane	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
Dibromochloromethane	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
1,1-Dichloroethane	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
1,2-Dichloroethane	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
1,1-Dichloroethene	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
cis-1,2-Dichloroethene	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
trans-1,2-Dichloroethene	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
1,2-Dichloropropane	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
cis-1,3-Dichloropropene	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
trans-1,3-Dichloropropene	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
Ethylbenzene	0.0059 U	0.0059 U	0.0063 U	0.6	30
2-Hexanone	0.012 U	0.012 U	0.013 U	0.026 U	0.75 U
4-Methyl-2-Pentanone	0.012 U	0.012 U	0.013 U	0.026 U	0.75 U
Methylene Chloride	0.012 U	0.012 U	0.013 U	0.026 U	0.75 U
Methyl tert-butyl ether	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
Styrene	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
1,1,2,2-Tetrachloroethane	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
Tetrachloroethene	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
Toluene	0.0059 U	0.0059 U	0.0063 U	0.016	0.38 U
1,1,1-Trichloroethane	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
1,1,2-Trichloroethane	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
Trichloroethene	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
Vinyl Chloride	0.0059 U	0.0059 U	0.0063 U	0.013 U	0.38 U
Xylenes, Total	0.012 U	0.012 U	0.013 U	2.3	21

NOTES:

(1) TCL - Target compound list

(2) mg/kg - milligrams per kilogram.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

Table 1 (Continued)
Soil Analytical Results - Supplemental Site Investigation 2004
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SB48-002 18 - 20	SB49-001 8 - 10	SB49B-001 14 - 16	SB50-001 10 - 12	SB50-002 14 - 16
TCL Semivolatiles (mg/kg)					
Bis(2-chloroethoxy)methane	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
Bis(2-chloroethyl)ether	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
Bis(2-ethylhexyl)phthalate	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
4-Bromophenyl phenyl ether	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
Butyl benzyl phthalate	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
Carbazole	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
4-Chloro-3-methylphenol	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
4-Chloroaniline	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
2-Chloronaphthalene	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
2-Chlorophenol	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
4-Chlorophenyl phenyl ether	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
Dibenzofuran	0.41 U	0.42 U	0.41 U	0.47 U	1.2
1,2-Dichlorobenzene	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
1,3-Dichlorobenzene	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
1,4-Dichlorobenzene	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
3,3´-Dichlorobenzidine	0.82 U	0.84 U	0.82 U	0.93 U	0.91 U
2,4-Dichlorophenol	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
Diethyl phthalate	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
Dimethyl phthalate	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
Di-n-butyl phthalate	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
2,4-Dimethylphenol	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
4,6-Dinitro-2-methylphenol	2 U	2 U	2 U	2.3 U	2.2 U
2,4-Dinitrophenol	2 U	2 U	2 U	2.3 U	2.2 U
2,4-Dinitrotoluene	0.21 U	0.22 U	0.21 U	0.24 U	0.23 U
2,6-Dinitrotoluene	0.21 U	0.22 U	0.21 U	0.24 U	0.23 U
Di-n-octyl phthalate	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
Hexachlorobenzene	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
Hexachlorobutadiene	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
Hexachlorocyclopentadiene	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
Hexachloroethane	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
Isophorone	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
2-Methylnaphthalene	1.1	0.42 U	0.41 U	0.95	7.5
2-Methylphenol	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
4-Methylphenol	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
2-Nitroaniline	2 U	2 U	2 U	2.3 U	2.2 U
3-Nitroaniline	2 U	2 U	2 U	2.3 U	2.2 U
4-Nitroaniline	2 U	2 U	2 U	2.3 U	2.2 U
Nitrobenzene	0.21 U	0.22 U	0.21 U	0.24 U	0.23 U
2-Nitrophenol	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
4-Nitrophenol	2 U	2 U	2 U	2.3 U	2.2 U
N-Nitrosodi-n-propylamine	0.21 U	0.22 U	0.21 U	0.24 U	0.23 U
N-Nitrosodiphenylamine	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
2, 2'-Oxybis(1-Chloropropane)	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
Pentachlorophenol	2 U	2 U	2 U	2.3 U	2.2 U
Phenol	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
1,2,4-Trichlorobenzene	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U
2,4,5-Trichlorophenol	0.82 U	0.84 U	0.82 U	0.93 U	0.91 U
2,4,6-Trichlorophenol	0.41 U	0.42 U	0.41 U	0.47 U	0.46 U

NOTES:
(1) TCL - Target compound list
(2) mg/kg - milligrams per kilogram.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

Table 1 (Continued)
Soil Analytical Results - Supplemental Site Investigation 2004
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SB48-002 18 - 20	SB49-001 8 - 10	SB49B-001 14 - 16	SB50-001 10 - 12	SB50-002 14 - 16
PAHs (mg/kg)					
Acenaphthene	0.41	0.32	0.031 U	1.1	3
Acenaphthylene	0.031 U	0.19	0.031 U	0.57	0.44
Anthracene	0.16	0.44	0.031 U	1.4	2.6
Benzo(a)anthracene	0.11	1	0.035	2.2	3.9
Benzo(b)fluoranthene	0.063	0.78	0.031 U	1.5	2.4
Benzo(k)fluoranthene	0.082	0.74	0.032	1.5	3.8
Benzo(g,h,i)perylene	0.034	0.68	0.031 U	0.83	0.74
Benzo(a)pyrene	0.088	1	0.041	2.3	4.4
Chrysene	0.14	1	0.053	2.1	3.1
Dibenzo(a,h)anthracene	0.031 U	0.11	0.031 U	0.22	0.24
Fluoranthene	0.22	1.9	0.058	2.9	7.2
Fluorene	0.26	0.24	0.031 U	0.6	2.2
Indeno(1,2,3-cd)pyrene	0.031 U	0.55	0.031 U	0.75	0.89
Naphthalene	7.8	0.2	0.041	0.32	44
Phenanthrene	0.52	1.3	0.079	2.3	8.7
Pyrene	0.21	2.1	0.078	4.2	6.4
TPH (mg/kg)					
TPH (Gasoline)	24 U	25 U	22 U	140	110
TPH (Diesel)	24 U	25 U	22 U	1,200	150
TPH (Oil)	24 U	25 U	22 U	1,500	33

NOTES:
(1) PAHs - Polynuclear Aromatic Hydrocarbons
(2) mg/kg - milligrams per kilogram.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) TPH - Total Petroleum Hydrocarbons

Table 1 (Continued)
Soil Analytical Results - Supplemental Site Investigation 2004
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SB50-003 20 - 22	SB51-001 10 -12	SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14
TCL Volatiles (mg/kg)					
Acetone	0.037 UJ	0.03 U	0.027 U	1.4 U	0.027 UJ
Benzene	0.0073 UJ	3.7	0.0055 U	2.6	0.0089 J
Bromodichloromethane	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
Bromoform	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
Bromomethane	0.015 UJ	0.012 U	0.011 U	0.55 U	0.011 UJ
2-Butanone	0.015 UJ	0.012 U	0.011 U	0.55 U	0.011 UJ
Carbon Disulfide	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
Carbon Tetrachloride	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
Chlorobenzene	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
Chloroethane	0.015 UJ	0.012 U	0.011 U	0.55 U	0.011 UJ
Chloroform	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
Chloromethane	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
Dibromochloromethane	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
1,1-Dichloroethane	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
1,2-Dichloroethane	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
1,1-Dichloroethene	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
cis-1,2-Dichloroethene	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
trans-1,2-Dichloroethene	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
1,2-Dichloropropane	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
cis-1,3-Dichloropropene	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
trans-1,3-Dichloropropene	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
Ethylbenzene	0.56	5.8	0.0055 U	11	0.043 J
2-Hexanone	0.015 UJ	0.012 U	0.011 U	0.55 U	0.011 UJ
4-Methyl-2-Pentanone	0.015 UJ	0.012 U	0.011 U	0.55 U	0.011 UJ
Methylene Chloride	0.015 UJ	0.012 U	0.011 U	0.55 U	0.011 UJ
Methyl tert-butyl ether	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
Styrene	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
1,1,2,2-Tetrachloroethane	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
Tetrachloroethene	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
Toluene	0.018 J	0.0094	0.0055 U	0.7	0.0097 J
1,1,1-Trichloroethane	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
1,1,2-Trichloroethane	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
Trichloroethene	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
Vinyl Chloride	0.0073 UJ	0.006 U	0.0055 U	0.28 U	0.0054 UJ
Xylenes, Total	2.1 J	3.9	0.024	9.8	0.055 J

NOTES:
(1) TCL - Target compound list
(2) mg/kg - milligrams per kilogram.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) J - Indicates an estimated value.

Table 1 (Continued)
Soil Analytical Results - Supplemental Site Investigation 2004
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SB50-003 20 - 22	SB51-001 10 -12	SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14
TCL Semivolatiles (mg/kg)					
Bis(2-chloroethoxy)methane	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
Bis(2-chloroethyl)ether	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
Bis(2-ethylhexyl)phthalate	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
4-Bromophenyl phenyl ether	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
Butyl benzyl phthalate	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
Carbazole	0.45 U	4.8	0.41 U	0.4 U	0.39 U
4-Chloro-3-methylphenol	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
4-Chloroaniline	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
2-Chloronaphthalene	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
2-Chlorophenol	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
4-Chlorophenyl phenyl ether	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
Dibenzofuran	0.45 U	3.4	0.82	0.91	0.39 U
1,2-Dichlorobenzene	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
1,3-Dichlorobenzene	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
1,4-Dichlorobenzene	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
3,3´-Dichlorobenzidine	0.89 U	0.87 U	0.82 U	0.8 U	0.77 U
2,4-Dichlorophenol	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
Diethyl phthalate	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
Dimethyl phthalate	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
Di-n-butyl phthalate	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
2,4-Dimethylphenol	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
4,6-Dinitro-2-methylphenol	2.2 U	2.1 U	2 U	1.9 U	1.9 U
2,4-Dinitrophenol	2.2 U	2.1 U	2 U	1.9 U	1.9 U
2,4-Dinitrotoluene	0.23 U	0.22 U	0.21 U	0.21 U	0.2 U
2,6-Dinitrotoluene	0.23 U	0.22 U	0.21 U	0.21 U	0.2 U
Di-n-octyl phthalate	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
Hexachlorobenzene	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
Hexachlorobutadiene	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
Hexachlorocyclopentadiene	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
Hexachloroethane	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
Isophorone	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
2-Methylnaphthalene	0.45 U	52	4.5	19	1.8
2-Methylphenol	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
4-Methylphenol	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
2-Nitroaniline	2.2 U	2.1 U	2 U	1.9 U	1.9 U
3-Nitroaniline	2.2 U	2.1 U	2 U	1.9 U	1.9 U
4-Nitroaniline	2.2 U	2.1 U	2 U	1.9 U	1.9 U
Nitrobenzene	0.23 U	0.22 U	0.21 U	0.21 U	0.2 U
2-Nitrophenol	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
4-Nitrophenol	2.2 U	2.1 U	2 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	0.23 U	0.22 U	0.21 U	0.21 U	0.2 U
N-Nitrosodiphenylamine	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
Pentachlorophenol	2.2 U	2.1 U	2 U	1.9 U	1.9 U
Phenol	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
1,2,4-Trichlorobenzene	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U
2,4,5-Trichlorophenol	0.89 U	0.87 U	0.82 U	0.8 U	0.77 U
2,4,6-Trichlorophenol	0.45 U	0.44 U	0.41 U	0.4 U	0.39 U

NOTES:
(1) TCL - Target compound list
(2) mg/kg - milligrams per kilogram.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

Table 1 (Continued)
Soil Analytical Results - Supplemental Site Investigation 2004
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SB50-003 20 - 22	SB51-001 10 -12	SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14
PAHs (mg/kg)					
Acenaphthene	0.086	28	2.4	3.7	0.19
Acenaphthylene	0.034 U	4.1	0.47	1	0.066
Anthracene	0.18	20	2.2	2.2	0.12
Benzo(a)anthracene	0.42	17	2.3	1.8	0.091
Benzo(b)fluoranthene	0.27	8.2	1.2	0.71	0.038
Benzo(k)fluoranthene	0.38	7.4	1.1	0.31	0.035
Benzo(g,h,i)perylene	0.077	8	0.57	0.18	0.029 U
Benzo(a)pyrene	0.46	16	1.7	1.3	0.07
Chrysene	0.42	17	2	1.7	0.096
Dibenzo(a,h)anthracene	0.037	1.4	0.11	0.1	0.029 U
Fluoranthene	0.66	36	3.7	2.7	0.15
Fluorene	0.098	21	2.5	3.6	0.2
Indeno(1,2,3-cd)pyrene	0.098	6.2	0.59	0.35	0.029 U
Naphthalene	0.52	67	6.1	22	2.3
Phenanthrene	0.46	78	7.6	11	0.65
Pyrene	0.55	50	4.2	4.5	0.22
TPH (mg/kg)					
TPH (Gasoline)	26 U	26	25 U	24	23 U
TPH (Diesel)	31	290	25 U	420	23 U
TPH (Oil)	26 U	290	30	330	23 U

NOTES:
(1) PAHs - Polynuclear Aromatic Hydrocarbons
(2) mg/kg - milligrams per kilogram.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) TPH - Total Petroleum Hydrocarbons

Table 1 (Continued)
Soil Analytical Results - Supplemental Site Investigation 2004
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20	SB54-001 8 - 10	SB54-002 14 - 16
TCL Volatiles (mg/kg)					
Acetone	0.036 U	0.1	0.031 UJ	3.2 U	0.027 U
Benzene	0.0086	0.21	0.0062 UJ	5.7	0.0054 U
Bromodichloromethane	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
Bromoform	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
Bromomethane	0.015 U	0.019 U	0.012 UJ	1.3 U	0.011 U
2-Butanone	0.015 U	0.023	0.012 UJ	1.3 U	0.011 U
Carbon Disulfide	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
Carbon Tetrachloride	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
Chlorobenzene	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
Chloroethane	0.015 U	0.019 U	0.012 UJ	1.3 U	0.011 U
Chloroform	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
Chloromethane	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
Dibromochloromethane	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
1,1-Dichloroethane	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
1,2-Dichloroethane	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
1,1-Dichloroethene	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
cis-1,2-Dichloroethene	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
trans-1,2-Dichloroethene	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
1,2-Dichloropropane	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
cis-1,3-Dichloropropene	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
trans-1,3-Dichloropropene	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
Ethylbenzene	0.0073 U	1.2	0.0062 UJ	25	0.0054 U
2-Hexanone	0.015 U	0.019 U	0.012 UJ	1.3 U	0.011 U
4-Methyl-2-Pentanone	0.015 U	0.019 U	0.012 UJ	1.3 U	0.011 U
Methylene Chloride	0.018	0.035	0.026 J	1.3 U	0.011 U
Methyl tert-butyl ether	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
Styrene	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
1,1,2,2-Tetrachloroethane	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
Tetrachloroethene	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
Toluene	0.0073 U	0.013	0.0062 UJ	0.84	0.0054 U
1,1,1-Trichloroethane	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
1,1,2-Trichloroethane	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
Trichloroethene	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
Vinyl Chloride	0.0073 U	0.0095 U	0.0062 UJ	0.64 U	0.0054 U
Xylenes, Total	0.015 U	1.7	0.012 UJ	8.7	0.011 U

NOTES:
(1) TCL - Target compound list
(2) mg/kg - milligrams per kilogram.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) J - Indicates an estimated value.

Table 1 (Continued)
Soil Analytical Results - Supplemental Site Investigation 2004
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20	SB54-001 8 - 10	SB54-002 14 - 16
TCL Semivolatiles (mg/kg)					
Bis(2-chloroethoxy)methane	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
Bis(2-chloroethyl)ether	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
Bis(2-ethylhexyl)phthalate	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
4-Bromophenyl phenyl ether	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
Butyl benzyl phthalate	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
Carbazole	0.41 U	5.1	0.4 U	0.51	0.4 U
4-Chloro-3-methylphenol	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
4-Chloroaniline	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
2-Chloronaphthalene	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
2-Chlorophenol	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
4-Chlorophenyl phenyl ether	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
Dibenzofuran	0.41 U	4.9	0.4 U	1.9	0.4 U
1,2-Dichlorobenzene	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
1,3-Dichlorobenzene	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
1,4-Dichlorobenzene	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
3,3´-Dichlorobenzidine	0.82 U	0.85 U	0.8 U	0.84 U	0.79 U
2,4-Dichlorophenol	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
Diethyl phthalate	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
Dimethyl phthalate	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
Di-n-butyl phthalate	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
2,4-Dimethylphenol	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
4,6-Dinitro-2-methylphenol	2 U	2.1 U	1.9 U	2 U	1.9 U
2,4-Dinitrophenol	2 U	2.1 U	1.9 U	2 U	1.9 U
2,4-Dinitrotoluene	0.21 U	0.22 U	0.21 U	0.22 U	0.2 U
2,6-Dinitrotoluene	0.21 U	0.22 U	0.21 U	0.22 U	0.2 U
Di-n-octyl phthalate	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
Hexachlorobenzene	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
Hexachlorobutadiene	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
Hexachlorocyclopentadiene	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
Hexachloroethane	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
Isophorone	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
2-Methylnaphthalene	0.41 U	37	0.4 U	45	0.4 U
2-Methylphenol	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
4-Methylphenol	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
2-Nitroaniline	2 U	2.1 U	1.9 U	2 U	1.9 U
3-Nitroaniline	2 U	2.1 U	1.9 U	2 U	1.9 U
4-Nitroaniline	2 U	2.1 U	1.9 U	2 U	1.9 U
Nitrobenzene	0.21 U	0.22 U	0.21 U	0.22 U	0.2 U
2-Nitrophenol	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
4-Nitrophenol	2 U	2.1 U	1.9 U	2 U	1.9 U
N-Nitrosodi-n-propylamine	0.21 U	0.22 U	0.21 U	0.22 U	0.2 U
N-Nitrosodiphenylamine	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
Pentachlorophenol	2 U	2.1 U	1.9 U	2 U	1.9 U
Phenol	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
1,2,4-Trichlorobenzene	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U
2,4,5-Trichlorophenol	0.82 U	0.85 U	0.8 U	0.84 U	0.79 U
2,4,6-Trichlorophenol	0.41 U	0.43 U	0.4 U	0.42 U	0.4 U

NOTES:
(1) TCL - Target compound list
(2) mg/kg - milligrams per kilogram.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

Table 1 (Continued)
Soil Analytical Results - Supplemental Site Investigation 2004
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20	SB54-001 8 - 10	SB54-002 14 - 16
PAHs (mg/kg)					
Acenaphthene	2	16	0.11	12	0.046
Acenaphthylene	1.6	2.4	0.046	4	0.03 U
Anthracene	2.6	16	0.12	7.4	0.046
Benzo(a)anthracene	5.2	14	0.12	5.4	0.037
Benzo(b)fluoranthene	1.4	6.4	0.054	2.6	0.03 U
Benzo(k)fluoranthene	1.8	6.5	0.076	2.1	0.03 U
Benzo(g,h,i)perylene	1	1.6	0.042	1.8	0.03 U
Benzo(a)pyrene	4.8	11	0.099	4.8	0.034
Chrysene	6.8	15	0.14	5.3	0.045
Dibenzo(a,h)anthracene	0.5	1.2	0.03 U	0.6	0.03 U
Fluoranthene	7.8	24	0.22	9.6	0.062
Fluorene	4	19	0.13	9.3	0.049
Indeno(1,2,3-cd)pyrene	0.92	1.8	0.031	1.6	0.03 U
Naphthalene	1.5	41	0.24	110	0.26
Phenanthrene	14	57	0.48	27	0.15
Pyrene	12	27	0.27	14	0.095
TPH (mg/kg)					
TPH (Gasoline)	23 U	25 U	22 U	37	22 U
TPH (Diesel)	400	1,000	22 U	250	22 U
TPH (Oil)	670	890	22 U	140	22 U

NOTES:
(1) PAHs - Polynuclear Aromatic Hydrocarbons
(2) mg/kg - milligrams per kilogram.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) TPH - Total Petroleum Hydrocarbons

Table 1 (Continued)
Soil Analytical Results - Supplemental Site Investigation 2004
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20	SB57-001 10 - 12	SB57-002 16 - 18
TCL Volatiles (mg/kg)					
Acetone	0.026	0.032 U	0.028 U	0.047 U	0.028 U
Benzene	0.064	0.0064 U	0.0056 U	0.0093 U	0.0057 U
Bromodichloromethane	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
Bromoform	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
Bromomethane	0.01 U	0.013 U	0.011 U	0.019 U	0.011 U
2-Butanone	0.01 U	0.013 U	0.011 U	0.019 U	0.011 U
Carbon Disulfide	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
Carbon Tetrachloride	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
Chlorobenzene	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
Chloroethane	0.01 U	0.013 U	0.011 U	0.019 U	0.011 U
Chloroform	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
Chloromethane	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
Dibromochloromethane	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
1,1-Dichloroethane	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
1,2-Dichloroethane	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
1,1-Dichloroethene	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
cis-1,2-Dichloroethene	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
trans-1,2-Dichloroethene	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
1,2-Dichloropropane	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
cis-1,3-Dichloropropene	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
trans-1,3-Dichloropropene	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
Ethylbenzene	0.11	0.0064 U	0.0056 U	0.0093 U	0.0057 U
2-Hexanone	0.01 U	0.013 U	0.011 U	0.019 U	0.011 U
4-Methyl-2-Pentanone	0.01 U	0.013 U	0.011 U	0.019 U	0.011 U
Methylene Chloride	0.01 U	0.013 U	0.011 U	0.019 U	0.011 U
Methyl tert-butyl ether	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
Styrene	0.016	0.0064 U	0.0056 U	0.0093 U	0.0057 U
1,1,2,2-Tetrachloroethane	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
Tetrachloroethene	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
Toluene	0.066	0.0064 U	0.0056 U	0.0093 U	0.0057 U
1,1,1-Trichloroethane	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
1,1,2-Trichloroethane	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
Trichloroethene	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
Vinyl Chloride	0.005 U	0.0064 U	0.0056 U	0.0093 U	0.0057 U
Xylenes, Total	0.18	0.013 U	0.011 U	0.019 U	0.011 U

NOTES:
(1) TCL - Target compound list
(2) mg/kg - milligrams per kilogram.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

Table 1 (Continued)
Soil Analytical Results - Supplemental Site Investigation 2004
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20	SB57-001 10 - 12	SB57-002 16 - 18
TCL Semivolatiles (mg/kg)					
Bis(2-chloroethoxy)methane	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
Bis(2-chloroethyl)ether	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
Bis(2-ethylhexyl)phthalate	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
4-Bromophenyl phenyl ether	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
Butyl benzyl phthalate	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
Carbazole	0.39 U	0.4 U	0.4 U	4.9	0.39 U
4-Chloro-3-methylphenol	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
4-Chloroaniline	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
2-Chloronaphthalene	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
2-Chlorophenol	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
4-Chlorophenyl phenyl ether	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
Dibenzofuran	0.39 U	0.4 U	0.4 U	3.4	0.39 U
1,2-Dichlorobenzene	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
1,3-Dichlorobenzene	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
1,4-Dichlorobenzene	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
3,3´-Dichlorobenzidine	0.79 U	0.81 U	0.81 U	0.97 U	0.79 U
2,4-Dichlorophenol	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
Diethyl phthalate	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
Dimethyl phthalate	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
Di-n-butyl phthalate	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
2,4-Dimethylphenol	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
4,6-Dinitro-2-methylphenol	1.9 U	2 U	2 U	2.4 U	1.9 U
2,4-Dinitrophenol	1.9 U	2 U	2 U	2.4 U	1.9 U
2,4-Dinitrotoluene	0.2 U	0.21 U	0.21 U	0.25 U	0.2 U
2,6-Dinitrotoluene	0.2 U	0.21 U	0.21 U	0.25 U	0.2 U
Di-n-octyl phthalate	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
Hexachlorobenzene	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
Hexachlorobutadiene	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
Hexachlorocyclopentadiene	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
Hexachloroethane	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
Isophorone	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
2-Methylnaphthalene	0.8	0.4 U	0.4 U	3	0.39 U
2-Methylphenol	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
4-Methylphenol	0.39 U	0.4 U	0.4 U	2.7	0.39 U
2-Nitroaniline	1.9 U	2 U	2 U	2.4 U	1.9 U
3-Nitroaniline	1.9 U	2 U	2 U	2.4 U	1.9 U
4-Nitroaniline	1.9 U	2 U	2 U	2.4 U	1.9 U
Nitrobenzene	0.2 U	0.21 U	0.21 U	0.25 U	0.2 U
2-Nitrophenol	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
4-Nitrophenol	1.9 U	2 U	2 U	2.4 U	1.9 U
N-Nitrosodi-n-propylamine	0.2 U	0.21 U	0.21 U	0.25 U	0.2 U
N-Nitrosodiphenylamine	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
Pentachlorophenol	1.9 U	2 U	2 U	2.4 U	1.9 U
Phenol	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
1,2,4-Trichlorobenzene	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U
2,4,5-Trichlorophenol	0.79 U	0.81 U	0.81 U	0.97 U	0.79 U
2,4,6-Trichlorophenol	0.39 U	0.4 U	0.4 U	0.48 U	0.39 U

NOTES:
(1) TCL - Target compound list
(2) mg/kg - milligrams per kilogram.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

Table 1 (Continued)
Soil Analytical Results - Supplemental Site Investigation 2004
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20	SB57-001 10 - 12	SB57-002 16 - 18
PAHs (mg/kg)					
Acenaphthene	0.078	0.03 U	0.031 U	3.9	0.03 U
Acenaphthylene	0.089	0.03 U	0.031 U	0.85	0.03 U
Anthracene	0.099	0.03 U	0.031 U	11	0.03 U
Benzo(a)anthracene	0.098	0.03 U	0.031 U	18	0.03 U
Benzo(b)fluoranthene	0.054	0.03 U	0.031 U	11	0.03 U
Benzo(k)fluoranthene	0.05	0.03 U	0.031 U	12	0.03 U
Benzo(g,h,i)perylene	0.033	0.03 U	0.031 U	6.7	0.03 U
Benzo(a)pyrene	0.092	0.03 U	0.031 U	15	0.03 U
Chrysene	0.1	0.03 U	0.031 U	16	0.037
Dibenzo(a,h)anthracene	0.029 U	0.03 U	0.031 U	1.8	0.03 U
Fluoranthene	0.16	0.03 U	0.031 U	31	0.056
Fluorene	0.15	0.03 U	0.031 U	6.4	0.03 U
Indeno(1,2,3-cd)pyrene	0.029 U	0.03 U	0.031 U	6.9	0.03 U
Naphthalene	0.95	0.03 U	0.031 U	4.1	0.054
Phenanthrene	0.58	0.067	0.037	26	0.11
Pyrene	0.31	0.03 U	0.031 U	29	0.057
TPH (mg/kg)					
TPH (Gasoline)	23 U	22 U	23 U	29 U	24 U
TPH (Diesel)	23 U	22 U	23 U	660	24 U
TPH (Oil)	27	22 U	23 U	1,900	24 U

NOTES:
(1) PAHs - Polynuclear Aromatic Hydrocarbons
(2) mg/kg - milligrams per kilogram.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) TPH - Total Petroleum Hydrocarbons

Table 1 (Continued)
Soil Analytical Results - Supplemental Site Investigation 2004
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SB58-001 12 - 14	SB58-002 16 - 18	SB58-003 8 - 10	SB59-001 6 - 8	SB59-002 16 - 18
TCL Volatiles (mg/kg)					
Acetone	0.047 U	0.031 UJ	0.047 J	0.028 U	0.033 U
Benzene	0.0094 U	0.0061 UJ	0.0093 UJ	0.031	0.0067 U
Bromodichloromethane	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
Bromoform	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
Bromomethane	0.019 U	0.012 UJ	0.019 UJ	0.011 U	0.013 U
2-Butanone	0.019 U	0.012 UJ	0.019 UJ	0.011 U	0.013 U
Carbon Disulfide	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
Carbon Tetrachloride	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
Chlorobenzene	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
Chloroethane	0.019 U	0.012 UJ	0.019 UJ	0.011 U	0.013 U
Chloroform	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
Chloromethane	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
Dibromochloromethane	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
1,1-Dichloroethane	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
1,2-Dichloroethane	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
1,1-Dichloroethene	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
cis-1,2-Dichloroethene	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
trans-1,2-Dichloroethene	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
1,2-Dichloropropane	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
cis-1,3-Dichloropropene	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
trans-1,3-Dichloropropene	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
Ethylbenzene	0.0094 U	0.0061 UJ	0.0093 UJ	0.071	0.0067 U
2-Hexanone	0.019 U	0.012 UJ	0.019 UJ	0.011 U	0.013 U
4-Methyl-2-Pentanone	0.019 U	0.012 UJ	0.019 UJ	0.011 U	0.013 U
Methylene Chloride	0.019 U	0.012 UJ	0.019 UJ	0.017	0.016
Methyl tert-butyl ether	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
Styrene	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
1,1,2,2-Tetrachloroethane	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
Tetrachloroethene	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
Toluene	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
1,1,1-Trichloroethane	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
1,1,2-Trichloroethane	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
Trichloroethene	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
Vinyl Chloride	0.0094 U	0.0061 UJ	0.0093 UJ	0.0055 U	0.0067 U
Xylenes, Total	0.019 U	0.012 UJ	0.019 UJ	0.044	0.013 U

NOTES:
(1) TCL - Target compound list
(2) mg/kg - milligrams per kilogram.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) J - Indicates an estimated value.

Table 1 (Continued)
Soil Analytical Results - Supplemental Site Investigation 2004
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SB58-001 12 - 14	SB58-002 16 - 18	SB58-003 8 - 10	SB59-001 6 - 8	SB59-002 16 - 18
TCL Semivolatiles (mg/kg)					
Bis(2-chloroethoxy)methane	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Bis(2-chloroethyl)ether	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Bis(2-ethylhexyl)phthalate	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
4-Bromophenyl phenyl ether	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Butyl benzyl phthalate	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Carbazole	6.8	0.41 U	0.51 U	0.39 U	0.38 U
4-Chloro-3-methylphenol	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
4-Chloroaniline	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
2-Chloronaphthalene	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
2-Chlorophenol	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
4-Chlorophenyl phenyl ether	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Dibenzofuran	4.6	0.41 U	0.51 U	0.39 U	0.38 U
1,2-Dichlorobenzene	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
1,3-Dichlorobenzene	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
1,4-Dichlorobenzene	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
3,3´-Dichlorobenzidine	1.1 U	0.82 U	1 U	0.78 U	0.75 U
2,4-Dichlorophenol	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Diethyl phthalate	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Dimethyl phthalate	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Di-n-butyl phthalate	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
2,4-Dimethylphenol	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
4,6-Dinitro-2-methylphenol	2.6 U	2 U	2.5 U	1.9 U	1.8 U
2,4-Dinitrophenol	2.6 U	2 U	2.5 U	1.9 U	1.8 U
2,4-Dinitrotoluene	0.28 U	0.21 U	0.26 U	0.2 U	0.19 U
2,6-Dinitrotoluene	0.28 U	0.21 U	0.26 U	0.2 U	0.19 U
Di-n-octyl phthalate	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Hexachlorobenzene	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Hexachlorobutadiene	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Hexachlorocyclopentadiene	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Hexachloroethane	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Isophorone	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
2-Methylnaphthalene	3.8	0.41 U	1.3	0.39 U	0.38 U
2-Methylphenol	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
4-Methylphenol	2.2	0.41 U	0.51 U	0.39 U	0.38 U
2-Nitroaniline	2.6 U	2 U	2.5 U	1.9 U	1.8 U
3-Nitroaniline	2.6 U	2 U	2.5 U	1.9 U	1.8 U
4-Nitroaniline	2.6 U	2 U	2.5 U	1.9 U	1.8 U
Nitrobenzene	0.28 U	0.21 U	0.26 U	0.2 U	0.19 U
2-Nitrophenol	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
4-Nitrophenol	2.6 U	2 U	2.5 U	1.9 U	1.8 U
N-Nitrosodi-n-propylamine	0.28 U	0.21 U	0.26 U	0.2 U	0.19 U
N-Nitrosodiphenylamine	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Pentachlorophenol	2.6 U	2 U	2.5 U	1.9 U	1.8 U
Phenol	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
1,2,4-Trichlorobenzene	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
2,4,5-Trichlorophenol	1.1 U	0.82 U	1 U	0.78 U	0.75 U
2,4,6-Trichlorophenol	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U

NOTES:
(1) TCL - Target compound list
(2) mg/kg - milligrams per kilogram.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

Table 1 (Continued)
Soil Analytical Results - Supplemental Site Investigation 2004
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SB58-001 12 - 14	SB58-002 16 - 18	SB58-003 8 - 10	SB59-001 6 - 8	SB59-002 16 - 18
PAHs (mg/kg)					
Acenaphthene	4.3	0.072	1.3	0.029 U	0.028 U
Acenaphthylene	0.45	0.031 U	0.63	0.029 U	0.028 U
Anthracene	11	0.079	1.1	0.029 U	0.028 U
Benzo(a)anthracene	14	0.065	2.2	0.029 U	0.028 U
Benzo(b)fluoranthene	8.5	0.038	2.3	0.029 U	0.028 U
Benzo(k)fluoranthene	9.8	0.038	1.7	0.029 U	0.028 U
Benzo(g,h,i)perylene	3.2	0.031 U	1.2	0.029 U	0.028 U
Benzo(a)pyrene	12	0.059	2.4	0.029 U	0.028 U
Chrysene	12	0.061	2	0.029	0.028 U
Dibenzo(a,h)anthracene	1.6	0.031 U	0.45	0.029 U	0.028 U
Fluoranthene	27	0.14	4.2	0.029	0.028 U
Fluorene	6.2	0.088	1.4	0.029 U	0.028 U
Indeno(1,2,3-cd)pyrene	3.8	0.031 U	1.2	0.029 U	0.028 U
Naphthalene	4	0.39	0.87	0.087	0.028 U
Phenanthrene	27	0.24	1.3	0.089	0.075
Pyrene	23	0.11	4.7	0.05	0.028 U
TPH (mg/kg)					
TPH (Gasoline)	31 U	23 U	43	23 U	22 U
TPH (Diesel)	300	23 U	5,100	23 U	22 U
TPH (Oil)	1,100	25	500	25	22 U

NOTES:

(1) PAHs - Polynuclear Aromatic Hydrocarbons

(2) mg/kg - milligrams per kilogram.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) TPH - Total Petroleum Hydrocarbons

Table 2
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-001 1-2	SB01-002 8-10	SP02-001 2-3	SP02-002 3-4	SP03-001 2-3
TCL Volatiles (mg/kg)						
Acetone	7,800	0.099	0.041 U	0.17	0.091	0.051
Benzene	12	0.0097 U	0.0082 U	0.055	0.015	0.0072 U
Bromodichloromethane	10	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Bromoform	81	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Bromomethane	110	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
2-Butanone	--	0.019 U	0.016 U	0.024 U	0.02	0.014 U
Carbon Disulfide	7,800	0.0097 U	0.0082 U	0.023	0.0081 U	0.0072 U
Carbon Tetrachloride	5	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Chlorobenzene	1,600	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Chloroethane +	31,000	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
Chloroform	100	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Chloromethane +	310	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Dibromochloromethane	1600	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1-Dichloroethane	7,800	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,2-Dichloroethane	7	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1-Dichloroethene	700	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
cis-1,2-Dichloroethene	780	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
trans-1,2-Dichloroethene	1,600	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,2-Dichloropropane	9	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
cis-1,3-Dichloropropene	6.4	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
trans-1,3-Dichloropropene	6.4	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Ethylbenzene	7,800	0.0097 U	0.0082 U	0.044	0.049	0.0072 U
2-Hexanone +	3,100	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
4-Methyl-2-Pentanone	--	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
Methylene Chloride	85	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
Methyl tert-butyl ether	780	NA	NA	NA	NA	NA
Styrene	16,000	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1,2,2-Tetrachloroethane +	4,700	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Tetrachloroethene	12	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Toluene	16,000	0.0097 U	0.0082 U	0.036	0.0081 U	0.0072 U
1,1,1-Trichloroethane	--	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1,2-Trichloroethane	310	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Trichloroethene	58	0.0097 U	0.0082 U	0.021	0.0081 U	0.0072 U
Vinyl Chloride	0.46	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
m,p-Xylene*	160,000	0.0097 U	0.0082 U	0.028	0.0081 U	0.0072 U
o-Xylene*	160,000	0.0097 U	0.0082 U	0.025	0.012	0.0096
Xylenes, Total	160,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-001 1-2	SB01-002 8-10	SP02-001 2-3	SP02-002 3-4	SP03-001 2-3
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Bis(2-chloroethyl)ether **	0.6	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Bis(2-ethylhexyl)phthalate	46	0.37 U	0.45	0.37 U	0.38 U	0.49
4-Bromophenyl phenyl ether	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Butyl benzyl phthalate	16,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Carbazole	32	0.37 U	0.38 U	0.52	0.47	2.9
4-Chloro-3-methylphenol +	5,500	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4-Chloroaniline	310	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Chloronaphthalene	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Chlorophenol	390	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4-Chlorophenyl phenyl ether	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Dibenzofuran +	310	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,2-Dichlorobenzene	7,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,3-Dichlorobenzene +	70	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,4-Dichlorobenzene	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
3,3´-Dichlorobenzidine **	1	0.74 U	0.76 U	0.75 U	0.75 U	0.71 U
2,4-Dichlorophenol	230	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Diethyl phthalate	63,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Dimethyl phthalate +	780,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Di-n-butyl phthalate	7,800	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2,4-Dimethylphenol	1,600	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4,6-Dinitro-2-methylphenol	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
2,4-Dinitrophenol	160	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
2,4-Dinitrotoluene **	0.9	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2,6-Dinitrotoluene **	0.9	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Di-n-octyl phthalate	1,600	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachlorobenzene **	0.4	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachlorobutadiene +	16	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachlorocyclopentadiene	550	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachloroethane	78	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Isophorone	15,600	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Methylnaphthalene +	310	0.37 U	0.38 U	0.85	0.38 U	0.57
2-Methylphenol	3,900	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4-Methylphenol +	390	0.37 U	0.38 U	0.56	0.38 U	0.36 U
2-Nitroaniline	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
3-Nitroaniline	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
4-Nitroaniline	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
Nitrobenzene	39	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Nitrophenol	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
4-Nitrophenol	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
N-Nitrosodi-n-propylamine **	0.09	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
N-Nitrosodiphenylamine	130	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.016 U	0.016 U	0.015 U
Pentachlorophenol **	3	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
Phenol	47,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,2,4-Trichlorobenzene	780	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2,4,5-Trichlorophenol	7,800	0.74 U	0.76 U	0.75 U	0.75 U	0.71 U
2,4,6-Trichlorophenol	58	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-001 1-2	SB01-002 8-10	SP02-001 2-3	SP02-002 3-4	SP03-001 2-3
PAHs (mg/kg)						
Acenaphthene	4,700	0.037	0.029 U	0.45	0.19	0.69
Acenaphthylene +	2,300	0.032	0.029 U	1.2	0.13	0.32
Anthracene	23,000	0.27	0.16	1.5	0.3	0.75
Benzo(a)anthracene	0.9	0.34	0.34	3.5	0.43	2.5
Benzo(b)fluoranthene	0.9	0.44	0.32	2.2	0.36	1.8
Benzo(k)fluoranthene	9	0.44	0.26	2.7	0.39	1.6
Benzo(g,h,i)perylene +	2,300	0.31	0.23	2	0.48	0.94
Benzo(a)pyrene	0.09	0.32	0.21	3.1	0.52	2.3
Chrysene	88	0.71	0.67	4.1	0.62	2.5
Dibenzo(a,h)anthracene	0.09	0.16	0.099	0.81	0.13	0.39
Fluoranthene	3,100	1.4	1.1	6.2	0.85	4.1
Fluorene	3,100	0.067	0.029 U	0.63	0.21	0.65
Indeno(1,2,3-cd)pyrene	0.9	0.31	0.2	2	0.35	0.93
Naphthalene	1,600	0.36	0.044	0.84	0.28	0.75
Phenanthrene +	2,300	0.64	0.35	3.8	1	3.7
Pyrene	2,300	1.5	1.2	8.6	1.1	4.5
PCBs (mg/kg)						
Aroclor 1016	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1221	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1232	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1242	--	0.09 U	0.093 U	0.094	0.09 U	0.4
Aroclor 1248	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1254	--	0.18 U	0.19 U	0.18 U	0.18 U	0.33
Aroclor 1260	--	0.18 U	0.19 U	0.18 U	0.18 U	0.16 U
Total PCBs	1	0.810 U	0.845 U	0.814	0.810 U	1.226
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	0.97 UJ	1 UJ	1 UJ	1 UJ	1.1 UJ
Arsenic	13.0	8.1	9.2 J	6.5	2.5 J	7.2
Barium	5,500	61 J	47 J	82 J	19 J	68 J
Beryllium	160	0.75	0.87	1.1	0.63	1
Cadmium	78	0.91	0.54	0.79	0.52 U	1.1
Chromium	230	14 J	20 J	15 J	6.9 J	20 J
Copper	2,900	66 J	32 J	43 J	8.9 J	110 J
Lead	400	380 J	41	130 J	31	150 J
Mercury	23	0.35	0.28	0.15	0.035	0.076
Nickel	1,600	17 J	33 J	20 J	5.5 J	23 J
Selenium	390	0.97 U	1 U	1 U	1 U	1.1 U
Silver	390	0.97 U	1 U	1 U	1 U	1.1 U
Thallium	6.3	0.97 U	4.2	1	1 U	1.1 U
Zinc	23,000	160 J	70 J	90 J	23 J	290 J
Total Cyanide	1,600	0.31 U	0.27 U	0.26 U	0.26 U	0.23 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP03-002 4-5	SB04-001 5-7	SP05-001 2-3	SP05-002 9-10	SP06-001 2-3
TCL Volatiles (mg/kg)						
Acetone	7,800	0.32	0.061 U	0.067	0.061	0.073
Benzene	12	0.017 U	0.012 U	0.015	0.012 U	0.079
Bromodichloromethane	10	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Bromoform	81	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Bromomethane	110	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
2-Butanone	--	0.072	0.025 U	0.024 U	0.023 U	0.025 U
Carbon Disulfide	7,800	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Carbon Tetrachloride	5	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Chlorobenzene	1,600	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Chloroethane +	31,000	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
Chloroform	100	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Chloromethane +	310	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Dibromochloromethane	1600	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1-Dichloroethane	7,800	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,2-Dichloroethane	7	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1-Dichloroethene	700	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
cis-1,2-Dichloroethene	780	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
trans-1,2-Dichloroethene	1,600	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,2-Dichloropropane	9	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
cis-1,3-Dichloropropene	6.4	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
trans-1,3-Dichloropropene	6.4	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Ethylbenzene	7,800	0.017 U	0.012 U	0.012 U	0.012 U	0.15
2-Hexanone +	3,100	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
4-Methyl-2-Pentanone	--	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
Methylene Chloride	85	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
Methyl tert-butyl ether	780	NA	NA	NA	NA	NA
Styrene	16,000	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1,2,2-Tetrachloroethane +	4,700	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Tetrachloroethene	12	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Toluene	16,000	0.017 U	0.012 U	0.012 U	0.012 U	0.041
1,1,1-Trichloroethane	--	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1,2-Trichloroethane	310	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Trichloroethene	58	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Vinyl Chloride	0.46	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
m,p-Xylene*	160,000	0.017 U	0.012 U	0.012 U	0.012 U	0.11
o-Xylene*	160,000	0.017 U	0.012 U	0.012 U	0.012 U	0.12
Xylenes, Total	160,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP03-002 4-5	SB04-001 5-7	SP05-001 2-3	SP05-002 9-10	SP06-001 2-3
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Bis(2-chloroethyl)ether **	0.6	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Bis(2-ethylhexyl)phthalate	46	0.44 U	1.1	0.38 U	0.39 U	0.38 U
4-Bromophenyl phenyl ether	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Butyl benzyl phthalate	16,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Carbazole	32	0.44 U	0.41 U	0.67	0.39 U	2.2
4-Chloro-3-methylphenol +	5,500	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4-Chloroaniline	310	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Chloronaphthalene	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Chlorophenol	390	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4-Chlorophenyl phenyl ether	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Dibenzofuran +	310	0.44 U	0.41 U	0.38 U	0.39 U	0.4
1,2-Dichlorobenzene	7,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
1,3-Dichlorobenzene +	70	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
1,4-Dichlorobenzene	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
3,3´-Dichlorobenzidine **	1	0.89 U	0.82 U	0.76 U	0.78 U	0.76 U
2,4-Dichlorophenol	230	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Diethyl phthalate	63,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Dimethyl phthalate +	780,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Di-n-butyl phthalate	7,800	0.44 U	0.45	0.38 U	0.39 U	0.38 U
2,4-Dimethylphenol	1,600	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4,6-Dinitro-2-methylphenol	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
2,4-Dinitrophenol	160	2.1 U	2 U	1.8 U	1.9 U	1.8 U
2,4-Dinitrotoluene **	0.9	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2,6-Dinitrotoluene **	0.9	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Di-n-octyl phthalate	1,600	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachlorobenzene **	0.4	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachlorobutadiene +	16	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachlorocyclopentadiene	550	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachloroethane	78	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Isophorone	15,600	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Methylnaphthalene +	310	0.44 U	0.41 U	0.54	0.39 U	2.7
2-Methylphenol	3,900	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4-Methylphenol +	390	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Nitroaniline	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
3-Nitroaniline	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
4-Nitroaniline	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
Nitrobenzene	39	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Nitrophenol	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
4-Nitrophenol	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
N-Nitrosodi-n-propylamine **	0.09	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
N-Nitrosodiphenylamine	130	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	--	0.019 U	0.017 U	0.016 U	0.017 U	0.016 U
Pentachlorophenol **	3	2.1 U	2 U	1.8 U	1.9 U	1.8 U
Phenol	47,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
1,2,4-Trichlorobenzene	780	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2,4,5-Trichlorophenol	7,800	0.89 U	0.82 U	0.76 U	0.78 U	0.76 U
2,4,6-Trichlorophenol	58	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP03-002 4-5	SB04-001 5-7	SP05-001 2-3	SP05-002 9-10	SP06-001 2-3
PAHs (mg/kg)						
Acenaphthene	4,700	0.034 U	0.17	0.84	0.03 U	1.4
Acenaphthylene +	2,300	0.034 U	0.13	1.3	0.03 U	0.59
Anthracene	23,000	0.034 U	0.7	1.1	0.03 U	1.7
Benzo(a)anthracene	0.9	0.034 U	0.78	3	0.03 U	3.3
Benzo(b)fluoranthene	0.9	0.034 U	1.1	1.9	0.03 U	2
Benzo(k)fluoranthene	9	0.034 U	0.91	2.5	0.03 U	2.4
Benzo(g,h,i)perylene +	2,300	0.034 U	1.2	1.2	0.03 U	1.4
Benzo(a)pyrene	0.09	0.034 U	0.75	3.3	0.03 U	3.3
Chrysene	88	0.034 U	1.7	3.5	0.03 U	4.2
Dibenzo(a,h)anthracene	0.09	0.034 U	0.41	0.55	0.03 U	0.71
Fluoranthene	3,100	0.034 U	2.4	4.3	0.03 U	7.2
Fluorene	3,100	0.034 U	0.31	0.77	0.03 U	1.5
Indeno(1,2,3-cd)pyrene	0.9	0.034 U	0.74	1.3	0.03 U	1.6
Naphthalene	1,600	0.034 U	0.15	0.22	0.03 U	4.2
Phenanthrene +	2,300	0.034 U	1.5	2.9	0.03 U	7
Pyrene	2,300	0.034 U	3.4	6.6	0.03 U	6.1
PCBs (mg/kg)						
Aroclor 1016	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1221	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1232	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1242	--	0.1 U	5.8	0.092 U	0.095 U	0.29
Aroclor 1248	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1254	--	0.2 U	3.4	0.19 U	0.19 U	0.29
Aroclor 1260	--	0.2 U	0.19 U	0.19 U	0.19 U	0.18 U
Total PCBs	1	0.900 U	9.774	0.840 U	0.855 U	1.128
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	1.2 UJ	1.4 J	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	13.0	3.6 J	8.1 J	9	5.8 J	7.3
Barium	5,500	58 J	260 J	78 J	18 J	160 J
Beryllium	160	1.3	0.72	1.1	0.97	0.95
Cadmium	78	0.6 U	3	1.1	0.55 U	1.2
Chromium	230	20 J	570 J	14 J	15 J	13 J
Copper	2,900	18 J	220 J	140 J	19 J	35 J
Lead	400	17	280	160 J	13	450 J
Mercury	23	0.031 U	0.31	0.32	0.027 U	0.22
Nickel	1,600	24 J	76 J	20 J	23 J	17 J
Selenium	390	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U
Silver	390	1.2 U	1.3	1.1 U	1.1 U	1.1 U
Thallium	6.3	1.2	1.2 U	1.1 U	1.5	1.1 U
Zinc	23,000	63 J	780 J	240 J	37 J	320 J
Total Cyanide	1,600	0.31 U	0.33 U	0.27 U	0.31 U	0.25 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP06-002 3-4	SP06-003 8-10	SP07-001 1-2	SP07-002 9-10	SP07-003 16-17
TCL Volatiles (mg/kg)						
Acetone	7,800	0.16	0.092 U	0.06 U	0.068 U	0.046 U
Benzene	12	0.78	0.056	0.012 U	0.014 U	0.0093 U
Bromodichloromethane	10	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Bromoform	81	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Bromomethane	110	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
2-Butanone	--	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Carbon Disulfide	7,800	0.025 U	0.018 U	0.04	0.014 U	0.0093 U
Carbon Tetrachloride	5	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Chlorobenzene	1,600	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Chloroethane +	31,000	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Chloroform	100	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Chloromethane +	310	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Dibromochloromethane	1600	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1-Dichloroethane	7,800	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,2-Dichloroethane	7	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1-Dichloroethene	700	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
cis-1,2-Dichloroethene	780	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
trans-1,2-Dichloroethene	1,600	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,2-Dichloropropane	9	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
cis-1,3-Dichloropropene	6.4	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
trans-1,3-Dichloropropene	6.4	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Ethylbenzene	7,800	3	0.38	0.013	0.014 U	0.0093 U
2-Hexanone +	3,100	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
4-Methyl-2-Pentanone	--	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Methylene Chloride	85	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Methyl tert-butyl ether	780	NA	NA	NA	NA	NA
Styrene	16,000	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1,2,2-Tetrachloroethane +	4,700	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Tetrachloroethene	12	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Toluene	16,000	0.79	0.044	0.012	0.014 U	0.0093 U
1,1,1-Trichloroethane	--	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1,2-Trichloroethane	310	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Trichloroethene	58	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Vinyl Chloride	0.46	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
m,p-Xylene*	160,000	3	0.098	0.016	0.014 U	0.0093 U
o-Xylene*	160,000	2	0.17	0.012 U	0.014 U	0.0093 U
Xylenes, Total	160,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP06-002 3-4	SP06-003 8-10	SP07-001 1-2	SP07-002 9-10	SP07-003 16-17
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Bis(2-chloroethyl)ether **	0.6	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Bis(2-ethylhexyl)phthalate	46	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Bromophenyl phenyl ether	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Butyl benzyl phthalate	16,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Carbazole	32	0.39 U	1.4	0.47	0.38 U	0.39 U
4-Chloro-3-methylphenol +	5,500	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Chloroaniline	310	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Chloronaphthalene	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Chlorophenol	390	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Dibenzofuran +	310	1.3	1.6	0.37 U	0.38 U	0.39 U
1,2-Dichlorobenzene	7,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
1,3-Dichlorobenzene +	70	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
1,4-Dichlorobenzene	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
3,3´-Dichlorobenzidine **	1	0.78 U	2.2 U	0.74 U	0.76 U	0.79 U
2,4-Dichlorophenol	230	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Diethyl phthalate	63,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Dimethyl phthalate +	780,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Di-n-butyl phthalate	7,800	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2,4-Dimethylphenol	1,600	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
2,4-Dinitrophenol	160	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
2,4-Dinitrotoluene **	0.9	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2,6-Dinitrotoluene **	0.9	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Di-n-octyl phthalate	1,600	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachlorobenzene **	0.4	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachlorobutadiene +	16	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachlorocyclopentadiene	550	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachloroethane	78	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Isophorone	15,600	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Methylnaphthalene +	310	20	17	0.4	0.38 U	0.39 U
2-Methylphenol	3,900	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Methylphenol +	390	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Nitroaniline	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
3-Nitroaniline	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
4-Nitroaniline	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
Nitrobenzene	39	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Nitrophenol	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
4-Nitrophenol	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine **	0.09	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
N-Nitrosodiphenylamine	130	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.046 U	0.016 U	0.016 U	0.017 U
Pentachlorophenol **	3	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
Phenol	47,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
1,2,4-Trichlorobenzene	780	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2,4,5-Trichlorophenol	7,800	0.78 U	2.2 U	0.74 U	0.76 U	0.79 U
2,4,6-Trichlorophenol	58	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP06-002 3-4	SP06-003 8-10	SP07-001 1-2	SP07-002 9-10	SP07-003 16-17
PAHs (mg/kg)						
Acenaphthene	4,700	10	4.5	0.28 U	0.029 U	0.03 U
Acenaphthylene +	2,300	2	4.2	0.39	0.029 U	0.03 U
Anthracene	23,000	9.6	4.9	0.54	0.029 U	0.03 U
Benzo(a)anthracene	0.9	3.9	4.2	1.5	0.029 U	0.03 U
Benzo(b)fluoranthene	0.9	1.1	1.3	1.3	0.029 U	0.03 U
Benzo(k)fluoranthene	9	0.89	1.1	0.98	0.029 U	0.03 U
Benzo(g,h,i)perylene +	2,300	1.2	0.82 U	0.77	0.029 U	0.03 U
Benzo(a)pyrene	0.09	2.7	0.97	1.6	0.029 U	0.03 U
Chrysene	88	5.1	4.3	1.6	0.029 U	0.03 U
Dibenzo(a,h)anthracene	0.09	0.52	0.82 U	0.28 U	0.029 U	0.03 U
Fluoranthene	3,100	9.1	6.8	2.5	0.029 U	0.03 U
Fluorene	3,100	10	6.5	0.28 U	0.029 U	0.03 U
Indeno(1,2,3-cd)pyrene	0.9	1.2	0.82 U	0.71	0.029 U	0.03 U
Naphthalene	1,600	27	13	0.28	0.029 U	0.03 U
Phenanthrene +	2,300	34	21	2.1	0.029 U	0.03 U
Pyrene	2,300	15	10	2.8	0.029 U	0.03 U
PCBs (mg/kg)						
Aroclor 1016	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1221	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1232	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1242	--	0.094 U	0.09 U	1.5	0.09 U	0.096 U
Aroclor 1248	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1254	--	0.19 U	0.18 U	0.91 U	0.18 U	0.19 U
Aroclor 1260	--	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U
Total PCBs	1	0.850 U	0.810 U	2.954	0.810 U	0.860 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	1.1 UJ	NA	1 UJ	1.1 UJ	1.1 UJ
Arsenic	13.0	6.5 J	NA	4.4	7.7 J	8.1 J
Barium	5,500	67 J	NA	370 J	38 J	98 J
Beryllium	160	1	NA	5.7	0.98	1.2
Cadmium	78	0.98	NA	1.4	0.54 U	0.57 U
Chromium	230	12 J	NA	120 J	17 J	21 J
Copper	2,900	71 J	NA	400 J	28 J	24 J
Lead	400	190	NA	180 J	55	16
Mercury	23	0.15	NA	0.091	0.029 U	0.032 U
Nickel	1,600	17 J	NA	17 J	33 J	31 J
Selenium	390	1.1 U	NA	2.8	1.1 U	1.1 U
Silver	390	1.1 U	NA	1 U	1.1 U	1.1 U
Thallium	6.3	1.1 U	NA	1 U	1.4	2.1
Zinc	23,000	190 J	NA	180 J	69 J	39 J
Total Cyanide	1,600	0.26 U	NA	0.26 U	0.27 U	0.29 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) NA - Not analyzed.
(8) J - Indicates an estimated value.
(9) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(10) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP08-001 0-0.5	SP08-002 7-8	SB09-001 3-5	SB10-001 1-2	SP10-002 6-7
TCL Volatiles (mg/kg)						
Acetone	7,800	0.047 U	0.097	0.12	0.062	0.071 U
Benzene	12	0.0095 U	0.011 U	0.19	0.0092	3.6
Bromodichloromethane	10	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Bromoform	81	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Bromomethane	110	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
2-Butanone	--	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Carbon Disulfide	7,800	0.0095 U	0.011 U	0.013	0.0074 U	0.014 U
Carbon Tetrachloride	5	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Chlorobenzene	1,600	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Chloroethane +	31,000	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Chloroform	100	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Chloromethane +	310	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Dibromochloromethane	1600	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1-Dichloroethane	7,800	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,2-Dichloroethane	7	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1-Dichloroethene	700	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
cis-1,2-Dichloroethene	780	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
trans-1,2-Dichloroethene	1,600	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,2-Dichloropropane	9	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
cis-1,3-Dichloropropene	6.4	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
trans-1,3-Dichloropropene	6.4	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Ethylbenzene	7,800	0.0095 U	0.011 U	0.07	0.014	8.2
2-Hexanone +	3,100	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
4-Methyl-2-Pentanone	--	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Methylene Chloride	85	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Methyl tert-butyl ether	780	NA	NA	NA	NA	NA
Styrene	16,000	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1,2,2-Tetrachloroethane +	4,700	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Tetrachloroethene	12	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Toluene	16,000	0.0095 U	0.011 U	0.011 U	0.0087	0.014 U
1,1,1-Trichloroethane	--	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1,2-Trichloroethane	310	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Trichloroethene	58	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Vinyl Chloride	0.46	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
m,p-Xylene*	160,000	0.0095 U	0.011 U	0.013	0.021	5
o-Xylene*	160,000	0.0095 U	0.011 U	0.087	0.014	1.4
Xylenes, Total	160,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP08-001 0-0.5	SP08-002 7-8	SB09-001 3-5	SB10-001 1-2	SP10-002 6-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Bis(2-chloroethyl)ether **	0.6	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Bis(2-ethylhexyl)phthalate	46	2.9	0.4 U	0.75	2.1	0.39 U
4-Bromophenyl phenyl ether	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Butyl benzyl phthalate	16,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Carbazole	32	0.41 U	0.4 U	3.7	1.1	0.39 U
4-Chloro-3-methylphenol +	5,500	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4-Chloroaniline	310	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Chloronaphthalene	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Chlorophenol	390	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Dibenzofuran +	310	0.41 U	0.4 U	0.65	2	1.2
1,2-Dichlorobenzene	7,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
1,3-Dichlorobenzene +	70	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
1,4-Dichlorobenzene	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
3,3´-Dichlorobenzidine **	1	0.81 U	0.8 U	0.75 U	0.72 U	0.77 U
2,4-Dichlorophenol	230	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Diethyl phthalate	63,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Dimethyl phthalate +	780,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Di-n-butyl phthalate	7,800	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2,4-Dimethylphenol	1,600	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4,6-Dinitro-2-methylphenol	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrophenol	160	2 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene **	0.9	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2,6-Dinitrotoluene **	0.9	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Di-n-octyl phthalate	1,600	0.71	0.4 U	0.37 U	0.36 U	0.39 U
Hexachlorobenzene **	0.4	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Hexachlorobutadiene +	16	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Hexachlorocyclopentadiene	550	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Hexachloroethane	78	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Isophorone	15,600	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Methylnaphthalene +	310	0.41 U	0.4 U	0.37 U	27	23
2-Methylphenol	3,900	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4-Methylphenol +	390	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Nitroaniline	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
3-Nitroaniline	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
4-Nitroaniline	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
Nitrobenzene	39	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Nitrophenol	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
4-Nitrophenol	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
N-Nitrosodi-n-propylamine **	0.09	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
N-Nitrosodiphenylamine	130	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.017 U	0.016 U	0.015 U	0.016 U
Pentachlorophenol **	3	2 U	1.9 U	1.8 U	1.8 U	1.9 U
Phenol	47,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
1,2,4-Trichlorobenzene	780	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2,4,5-Trichlorophenol	7,800	0.81 U	0.8 U	0.75 U	0.72 U	0.77 U
2,4,6-Trichlorophenol	58	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP08-001 0-0.5	SP08-002 7-8	SB09-001 3-5	SB10-001 1-2	SP10-002 6-7
PAHs (mg/kg)						
Acenaphthene	4,700	0.031 U	0.003 U	0.51	2.4	8.6
Acenaphthylene +	2,300	0.28	0.0052	0.36	1.9	5.1
Anthracene	23,000	0.4	0.011	2.3	7.1	8.6
Benzo(a)anthracene	0.9	1.4	0.029	3.3	1.6	1.7
Benzo(b)fluoranthene	0.9	1.2	0.035	2.3	3.5	2.5
Benzo(k)fluoranthene	9	0.9	0.027	2.3	3.4	1.7
Benzo(g,h,i)perylene +	2,300	0.9	0.015	0.74	3.6	1.6
Benzo(a)pyrene	0.09	1.7	0.031	1.6	3.9	2.2
Chrysene	88	1.5	0.035	3.8	9	11
Dibenzo(a,h)anthracene	0.09	0.33	0.006	0.31	1.2	0.59
Fluoranthene	3,100	1.7	0.043	5.3	11	6.8
Fluorene	3,100	0.078	0.0052	0.92	6.9	6.7
Indeno(1,2,3-cd)pyrene	0.9	0.83	0.014	0.69	2.6	1.1
Naphthalene	1,600	0.041	0.004	0.52	10	18
Phenanthrene +	2,300	1	0.032	5.2	24	26
Pyrene	2,300	2.1	0.056	5.1	14	14
PCBs (mg/kg)						
Aroclor 1016	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1221	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1232	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1242	--	0.37	0.098 U	0.39	3.9	0.094 U
Aroclor 1248	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1254	--	0.28	0.2 U	0.41	3.3	0.19 U
Aroclor 1260	--	0.2 U	0.2 U	0.18 U	0.18 U	0.19 U
Total PCBs	1	1.246	0.890 U	1.332	7.740	0.850 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	1.2 UJ	1.1 UJ	1 UJ	1.1 J	1.1 UJ
Arsenic	13.0	7.2	2.8 J	7.8 J	7.2	13 J
Barium	5,500	76 J	31 J	140 J	140 J	80 J
Beryllium	160	1.1	1.1	0.6	0.84	1.1
Cadmium	78	0.75	0.54 U	1.1	1.9	0.55 U
Chromium	230	15 J	18 J	98 J	26 J	18 J
Copper	2,900	50 J	22 J	68 J	120 J	32 J
Lead	400	200 J	18	340	260 J	25
Mercury	23	1.4	0.033	0.21	0.3	0.027 U
Nickel	1,600	19 J	24 J	38 J	25 J	35 J
Selenium	390	1.2 U	1.1 U	1 U	0.9 U	1.1 U
Silver	390	1.2 U	1.1 U	1 U	0.9 U	1.1 U
Thallium	6.3	1.2 U	1.5	1 U	1.3	2
Zinc	23,000	170 J	42 J	240 J	830 J	53 J
Total Cyanide	1,600	0.33 U	0.3 U	0.29 U	0.36	0.31 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP10-003 13-14	SP11-001 0-0.5	SP11-002 9-10	SP13-001 1-2	SP13-002 6-7
TCL Volatiles (mg/kg)						
Acetone	7,800	0.053 U	0.057 U	0.078	0.062	0.12
Benzene	12	0.92	0.011 U	0.013 U	0.012 U	0.012 U
Bromodichloromethane	10	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Bromoform	81	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Bromomethane	110	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
2-Butanone	--	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Carbon Disulfide	7,800	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Carbon Tetrachloride	5	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Chlorobenzene	1,600	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Chloroethane +	31,000	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Chloroform	100	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Chloromethane +	310	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Dibromochloromethane	1600	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1-Dichloroethane	7,800	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,2-Dichloroethane	7	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1-Dichloroethene	700	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
cis-1,2-Dichloroethene	780	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
trans-1,2-Dichloroethene	1,600	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,2-Dichloropropane	9	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
cis-1,3-Dichloropropene	6.4	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
trans-1,3-Dichloropropene	6.4	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Ethylbenzene	7,800	9	0.011 U	0.013 U	0.012 U	0.012 U
2-Hexanone +	3,100	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
4-Methyl-2-Pentanone	--	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Methylene Chloride	85	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Methyl tert-butyl ether	780	NA	NA	NA	NA	NA
Styrene	16,000	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1,2,2-Tetrachloroethane +	4,700	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Tetrachloroethene	12	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Toluene	16,000	0.6	0.011 U	0.013 U	0.012 U	0.012 U
1,1,1-Trichloroethane	--	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1,2-Trichloroethane	310	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Trichloroethene	58	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Vinyl Chloride	0.46	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
m,p-Xylene*	160,000	3.8	0.011 U	0.013 U	0.012 U	0.012 U
o-Xylene*	160,000	12	0.011 U	0.013 U	0.012 U	0.012 U
Xylenes, Total	160,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP10-003 13-14	SP11-001 0-0.5	SP11-002 9-10	SP13-001 1-2	SP13-002 6-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Bis(2-chloroethyl)ether **	0.6	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Bis(2-ethylhexyl)phthalate	46	0.38 U	1.1	0.38 U	0.36 U	0.4 U
4-Bromophenyl phenyl ether	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Butyl benzyl phthalate	16,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Carbazole	32	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Chloro-3-methylphenol +	5,500	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Chloroaniline	310	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Chloronaphthalene	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Chlorophenol	390	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Chlorophenyl phenyl ether	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Dibenzofuran +	310	0.75	0.38 U	0.38 U	0.36 U	0.4 U
1,2-Dichlorobenzene	7,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
1,3-Dichlorobenzene +	70	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
1,4-Dichlorobenzene	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
3,3´-Dichlorobenzidine **	1	0.77 U	0.76 U	0.77 U	0.73 U	0.8 U
2,4-Dichlorophenol	230	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Diethyl phthalate	63,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Dimethyl phthalate +	780,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Di-n-butyl phthalate	7,800	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2,4-Dimethylphenol	1,600	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrophenol	160	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrotoluene **	0.9	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2,6-Dinitrotoluene **	0.9	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Di-n-octyl phthalate	1,600	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachlorobenzene **	0.4	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachlorobutadiene +	16	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachlorocyclopentadiene	550	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachloroethane	78	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Isophorone	15,600	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Methylnaphthalene +	310	20	1.1	0.42	0.86	0.53
2-Methylphenol	3,900	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Methylphenol +	390	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Nitroaniline	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
3-Nitroaniline	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
4-Nitroaniline	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
Nitrobenzene	39	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Nitrophenol	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
4-Nitrophenol	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
N-Nitrosodi-n-propylamine **	0.09	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
N-Nitrosodiphenylamine	130	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.016 U	0.015 U	0.017 U
Pentachlorophenol **	3	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
Phenol	47,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
1,2,4-Trichlorobenzene	780	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2,4,5-Trichlorophenol	7,800	0.77 U	0.76 U	0.77 U	0.73 U	0.8 U
2,4,6-Trichlorophenol	58	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP10-003 13-14	SP11-001 0-0.5	SP11-002 9-10	SP13-001 1-2	SP13-002 6-7
PAHs (mg/kg)						
Acenaphthene	4,700	5.5	1.1	0.046	0.16	0.056
Acenaphthylene +	2,300	3.7	0.86	0.029 U	0.069	0.03 U
Anthracene	23,000	3.1	2.5	0.029 U	0.13	0.03 U
Benzo(a)anthracene	0.9	0.37	0.9	0.029 U	0.037	0.03 U
Benzo(b)fluoranthene	0.9	0.42	1.7	0.029 U	0.13	0.03 U
Benzo(k)fluoranthene	9	0.49	1.6	0.029 U	0.11	0.03 U
Benzo(g,h,i)perylene +	2,300	0.51	0.62	0.029 U	0.2	0.03 U
Benzo(a)pyrene	0.09	0.45	1.8	0.029 U	0.094	0.03 U
Chrysene	88	2.2	3.1	0.032	0.26	0.03 U
Dibenzo(a,h)anthracene	0.09	0.13	0.3	0.029 U	0.084	0.03 U
Fluoranthene	3,100	1.8	3.7	0.037	0.21	0.03 U
Fluorene	3,100	3.8	1.3	0.029 U	0.15	0.03 U
Indeno(1,2,3-cd)pyrene	0.9	0.26	0.44	0.029 U	0.14	0.03 U
Naphthalene	1,600	27	1.5	0.73	0.83	0.99
Phenanthrene +	2,300	9.3	6.5	0.092	0.34	0.04
Pyrene	2,300	3	7.8	0.063	0.28	0.03 U
PCBs (mg/kg)						
Aroclor 1016	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1221	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1232	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1242	--	0.09 U	0.49	0.094 U	0.98	0.097 U
Aroclor 1248	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1254	--	0.18 U	0.45	0.19 U	0.9 U	0.19 U
Aroclor 1260	--	0.18 U	0.18 U	0.19 U	0.18 U	0.19 U
Total PCBs	1	0.810 U	1.488	0.850 U	2.420	0.865 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	1.1 UJ	1.1 UJ	1.1 UJ	1 J	1.1 UJ
Arsenic	13.0	7.5 J	5.4	11 J	7.3	9.4 J
Barium	5,500	83 J	120 J	100 J	86 J	86 J
Beryllium	160	1.1	1.1	1.1	0.79	1.2
Cadmium	78	0.55 U	1.2	0.56 U	0.7	0.57 U
Chromium	230	19 J	16 J	20 J	14 J	20 J
Copper	2,900	31 J	90 J	32 J	40 J	34 J
Lead	400	18	140 J	19	250 J	20
Mercury	23	0.028	0.1	0.028 U	2.9	0.03
Nickel	1,600	39 J	26 J	37 J	19 J	34 J
Selenium	390	1.1 U	1.1 U	1.1 U	1 U	1.1 U
Silver	390	1.1 U	1.1 U	1.1 U	1 U	1.1 U
Thallium	6.3	2.5	1.5	2	1.5	2
Zinc	23,000	49 J	220 J	47 J	94 J	45 J
Total Cyanide	1,600	0.25 U	0.89	0.27 U	0.26 U	0.3 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-003 15-16	SB14-001 1-2	SB14-002 6-8	SB15-001 0-0.5	SB15-002 6-8
TCL Volatiles (mg/kg)						
Acetone	7,800	0.055 U	0.051 U	0.078	0.037 U	0.051 U
Benzene	12	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Bromodichloromethane	10	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Bromoform	81	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Bromomethane	110	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
2-Butanone	--	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Carbon Disulfide	7,800	0.011 U	0.01 U	0.015 U	0.0074 U	0.018
Carbon Tetrachloride	5	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Chlorobenzene	1,600	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Chloroethane +	31,000	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Chloroform	100	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Chloromethane +	310	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Dibromochloromethane	1600	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1-Dichloroethane	7,800	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,2-Dichloroethane	7	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1-Dichloroethene	700	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
cis-1,2-Dichloroethene	780	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
trans-1,2-Dichloroethene	1,600	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,2-Dichloropropane	9	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
cis-1,3-Dichloropropene	6.4	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
trans-1,3-Dichloropropene	6.4	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Ethylbenzene	7,800	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
2-Hexanone +	3,100	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
4-Methyl-2-Pentanone	--	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Methylene Chloride	85	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Methyl tert-butyl ether	780	NA	NA	NA	NA	NA
Styrene	16,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1,2,2-Tetrachloroethane +	4,700	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Tetrachloroethene	12	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Toluene	16,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1,1-Trichloroethane	--	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1,2-Trichloroethane	310	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Trichloroethene	58	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Vinyl Chloride	0.46	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
m,p-Xylene*	160,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
o-Xylene*	160,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Xylenes, Total	160,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-003 15-16	SB14-001 1-2	SB14-002 6-8	SB15-001 0-0.5	SB15-002 6-8
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Bis(2-chloroethyl)ether **	0.6	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Bis(2-ethylhexyl)phthalate	46	0.39 U	0.49	0.42 U	0.58	0.39 U
4-Bromophenyl phenyl ether	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Butyl benzyl phthalate	16,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Carbazole	32	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Chloro-3-methylphenol +	5,500	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Chloroaniline	310	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Chloronaphthalene	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Chlorophenol	390	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Dibenzofuran +	310	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,2-Dichlorobenzene	7,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,3-Dichlorobenzene +	70	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,4-Dichlorobenzene	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
3,3´-Dichlorobenzidine **	1	0.78 U	0.71 U	0.84 U	0.81 U	0.78 U
2,4-Dichlorophenol	230	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Diethyl phthalate	63,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Dimethyl phthalate +	780,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Di-n-butyl phthalate	7,800	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2,4-Dimethylphenol	1,600	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.7 U	2 U	2 U	1.9 U
2,4-Dinitrophenol	160	1.9 U	1.7 U	2 U	2 U	1.9 U
2,4-Dinitrotoluene **	0.9	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2,6-Dinitrotoluene **	0.9	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Di-n-octyl phthalate	1,600	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachlorobenzene **	0.4	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachlorobutadiene +	16	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachlorocyclopentadiene	550	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachloroethane	78	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Isophorone	15,600	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Methylnaphthalene +	310	0.79	0.35 U	0.42 U	0.4 U	0.39 U
2-Methylphenol	3,900	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Methylphenol +	390	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Nitroaniline	--	1.9 U	1.7 U	2 U	2 U	1.9 U
3-Nitroaniline	--	1.9 U	1.7 U	2 U	2 U	1.9 U
4-Nitroaniline	--	1.9 U	1.7 U	2 U	2 U	1.9 U
Nitrobenzene	39	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Nitrophenol	--	1.9 U	1.7 U	2 U	2 U	1.9 U
4-Nitrophenol	--	1.9 U	1.7 U	2 U	2 U	1.9 U
N-Nitrosodi-n-propylamine **	0.09	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
N-Nitrosodiphenylamine	130	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.015 U	0.018 U	0.017 U	0.017 U
Pentachlorophenol **	3	1.9 U	1.7 U	2 U	2 U	1.9 U
Phenol	47,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,2,4-Trichlorobenzene	780	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2,4,5-Trichlorophenol	7,800	0.78 U	0.71 U	0.84 U	0.81 U	0.78 U
2,4,6-Trichlorophenol	58	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-003 15-16	SB14-001 1-2	SB14-002 6-8	SB15-001 0-0.5	SB15-002 6-8
PAHs (mg/kg)						
Acenaphthene	4,700	0.077	0.15	0.032 U	0.031 U	0.03 U
Acenaphthylene +	2,300	0.03 U	0.18	0.032 U	0.13	0.03 U
Anthracene	23,000	0.03 U	0.25	0.032 U	0.031 U	0.03 U
Benzo(a)anthracene	0.9	0.03 U	3.5	0.032 U	0.15	0.03 U
Benzo(b)fluoranthene	0.9	0.03 U	1.8	0.032 U	0.13	0.03 U
Benzo(k)fluoranthene	9	0.03 U	1.6	0.032 U	0.13	0.03 U
Benzo(g,h,i)perylene +	2,300	0.03 U	0.66	0.032 U	0.17	0.03 U
Benzo(a)pyrene	0.09	0.03 U	3	0.032 U	0.2	0.03 U
Chrysene	88	0.03 U	3.2	0.032 U	0.21	0.03 U
Dibenzo(a,h)anthracene	0.09	0.03 U	0.35	0.032 U	0.057	0.03 U
Fluoranthene	3,100	0.03 U	4.2	0.035	0.24	0.087
Fluorene	3,100	0.036	0.15	0.032 U	0.031 U	0.03 U
Indeno(1,2,3-cd)pyrene	0.9	0.03 U	0.67	0.032 U	0.14	0.03 U
Naphthalene	1,600	1.1	0.19	0.11	0.031 U	0.051
Phenanthrene +	2,300	0.063	0.3	0.071	0.17	0.083
Pyrene	2,300	0.03 U	11	0.056	0.33	0.13
PCBs (mg/kg)						
Aroclor 1016	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1221	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1232	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1242	--	0.093 U	0.12	0.1 U	0.22	0.096 U
Aroclor 1248	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1254	--	0.19 U	0.17 U	0.2 U	0.2 U	0.19 U
Aroclor 1260	--	0.19 U	0.17 U	0.2 U	0.2 U	0.19 U
Total PCBs	1	0.845 U	0.800	0.900 U	1.004	0.860 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	1 UJ	0.98 UJ	1.1 UJ	1 UJ	1.1 UJ
Arsenic	13.0	9.6 J	3.3	15 J	9.3	12 J
Barium	5,500	74 J	32 J	31 J	150 J	26 J
Beryllium	160	1	0.61	1.2	0.99	1.1
Cadmium	78	0.66	0.59	0.57 U	2.2	0.57 U
Chromium	230	17 J	12 J	19 J	33 J	16 J
Copper	2,900	34 J	18 J	32 J	120 J	18 J
Lead	400	19	85 J	26	340 J	13
Mercury	23	0.061	0.06	0.031 U	0.23	0.027
Nickel	1,600	30 J	10 J	43 J	31 J	27 J
Selenium	390	1 U	0.98 U	1.1 U	1 U	1.1 U
Silver	390	1 U	0.98 U	1.1 U	1 U	1.1 U
Thallium	6.3	1.9	0.98 U	1.2	1	1.1
Zinc	23,000	42 J	91 J	47 J	550 J	36 J
Total Cyanide	1,600	0.26 U	0.28 U	0.32 U	0.32 U	0.27 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB15-003 10-12	SP16-001 2-3	SP16-002 9-10	SP16-003 15-16	SB17-001 1-2
TCL Volatiles (mg/kg)						
Acetone	7,800	0.1	0.053 U	0.1	0.062 U	0.06 U
Benzene	12	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Bromodichloromethane	10	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Bromoform	81	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Bromomethane	110	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
2-Butanone	--	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Carbon Disulfide	7,800	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Carbon Tetrachloride	5	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Chlorobenzene	1,600	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Chloroethane +	31,000	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Chloroform	100	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Chloromethane +	310	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Dibromochloromethane	1600	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1-Dichloroethane	7,800	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,2-Dichloroethane	7	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1-Dichloroethene	700	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
cis-1,2-Dichloroethene	780	0.011 U	0.053	0.0098 U	0.012 U	0.012 U
trans-1,2-Dichloroethene	1,600	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,2-Dichloropropane	9	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
cis-1,3-Dichloropropene	6.4	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
trans-1,3-Dichloropropene	6.4	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Ethylbenzene	7,800	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
2-Hexanone +	3,100	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
4-Methyl-2-Pentanone	--	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Methylene Chloride	85	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Methyl tert-butyl ether	780	NA	NA	NA	NA	NA
Styrene	16,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1,2,2-Tetrachloroethane +	4,700	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Tetrachloroethene	12	0.011 U	0.1	0.0098 U	0.012 U	0.012 U
Toluene	16,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1,1-Trichloroethane	--	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1,2-Trichloroethane	310	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Trichloroethene	58	0.011 U	0.017	0.0098 U	0.012 U	0.012 U
Vinyl Chloride	0.46	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
m,p-Xylene*	160,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
o-Xylene*	160,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Xylenes, Total	160,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB15-003 10-12	SP16-001 2-3	SP16-002 9-10	SP16-003 15-16	SB17-001 1-2
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Bis(2-chloroethyl)ether **	0.6	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Bis(2-ethylhexyl)phthalate	46	0.42 U	1.6	0.39 U	0.39 U	0.94
4-Bromophenyl phenyl ether	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Butyl benzyl phthalate	16,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Carbazole	32	0.42 U	0.75	0.39 U	0.39 U	0.36 U
4-Chloro-3-methylphenol +	5,500	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4-Chloroaniline	310	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Chloronaphthalene	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Chlorophenol	390	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Dibenzofuran +	310	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,2-Dichlorobenzene	7,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,3-Dichlorobenzene +	70	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,4-Dichlorobenzene	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
3,3´-Dichlorobenzidine **	1	0.85 U	0.73 U	0.77 U	0.77 U	0.73 U
2,4-Dichlorophenol	230	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Diethyl phthalate	63,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Dimethyl phthalate +	780,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Di-n-butyl phthalate	7,800	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2,4-Dimethylphenol	1,600	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4,6-Dinitro-2-methylphenol	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
2,4-Dinitrophenol	160	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
2,4-Dinitrotoluene **	0.9	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2,6-Dinitrotoluene **	0.9	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Di-n-octyl phthalate	1,600	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachlorobenzene **	0.4	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachlorobutadiene +	16	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachlorocyclopentadiene	550	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachloroethane	78	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Isophorone	15,600	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Methylnaphthalene +	310	0.42 U	0.64	0.39 U	0.39 U	0.36 U
2-Methylphenol	3,900	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4-Methylphenol +	390	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Nitroaniline	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
3-Nitroaniline	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
4-Nitroaniline	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
Nitrobenzene	39	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Nitrophenol	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
4-Nitrophenol	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
N-Nitrosodi-n-propylamine **	0.09	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
N-Nitrosodiphenylamine	130	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2, 2'-Oxybis(1-Chloropropane)	--	0.018 U	0.015 U	0.016 U	0.016 U	0.015 U
Pentachlorophenol **	3	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
Phenol	47,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,2,4-Trichlorobenzene	780	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2,4,5-Trichlorophenol	7,800	0.85 U	0.73 U	0.77 U	0.77 U	0.73 U
2,4,6-Trichlorophenol	58	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB15-003 10-12	SP16-001 2-3	SP16-002 9-10	SP16-003 15-16	SB17-001 1-2
PAHs (mg/kg)						
Acenaphthene	4,700	0.032 U	0.5	0.029 U	0.029 U	0.036
Acenaphthylene +	2,300	0.032 U	0.15	0.029 U	0.029 U	0.049
Anthracene	23,000	0.032 U	0.81	0.029 U	0.029 U	0.21
Benzo(a)anthracene	0.9	0.032 U	0.36	0.029 U	0.029 U	0.089
Benzo(b)fluoranthene	0.9	0.032 U	0.92	0.029 U	0.029 U	0.15
Benzo(k)fluoranthene	9	0.032 U	1.1	0.029 U	0.029 U	0.12
Benzo(g,h,i)perylene +	2,300	0.032 U	0.81	0.029 U	0.029 U	0.034
Benzo(a)pyrene	0.09	0.032 U	0.75	0.029 U	0.029 U	0.069
Chrysene	88	0.032 U	2.3	0.029 U	0.029 U	0.087
Dibenzo(a,h)anthracene	0.09	0.032 U	0.28	0.029 U	0.029 U	0.028 U
Fluoranthene	3,100	0.032 U	1.8	0.029 U	0.029 U	0.12
Fluorene	3,100	0.032 U	0.44	0.029 U	0.029 U	0.046
Indeno(1,2,3-cd)pyrene	0.9	0.032 U	0.54	0.029 U	0.029 U	0.034
Naphthalene	1,600	0.032 U	0.64	0.029 U	0.029 U	0.051
Phenanthrene +	2,300	0.032 U	2.2	0.029 U	0.029 U	0.21
Pyrene	2,300	0.032 U	2.7	0.029 U	0.029 U	0.18
PCBs (mg/kg)						
Aroclor 1016	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1221	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1232	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1242	--	0.1 U	4.7	0.094 U	0.095 U	0.15
Aroclor 1248	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1254	--	0.21 U	4.3	0.19 U	0.19 U	0.18 U
Aroclor 1260	--	0.21 U	0.18 U	0.19 U	0.19 U	0.18 U
Total PCBs	1	0.920 U	9.532	0.850 U	0.855 U	0.862
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	1.1 UJ	1.1 J	1 UJ	1.1 UJ	1 UJ
Arsenic	13.0	5 J	6.7	12 J	9.6 J	1.4
Barium	5,500	22 J	130 J	79 J	84 J	9.4 J
Beryllium	160	1.2	1.3	1.1	1.1	0.54
Cadmium	78	0.57 U	2.3	0.52 U	0.56 U	0.5 U
Chromium	230	19 J	47 J	17 J	17 J	5.3 J
Copper	2,900	31 J	170 J	39 J	28 J	4.9 J
Lead	400	16	150 J	21	17	7.3 J
Mercury	23	0.032 U	0.43	0.027 U	0.033	0.04
Nickel	1,600	30 J	40 J	37 J	24 J	3.3 J
Selenium	390	1.1 U	1 U	1 U	1.1 U	1 U
Silver	390	1.1 U	1 U	1 U	1.1 U	1 U
Thallium	6.3	2.5	1.4	1.8	1.7	1 U
Zinc	23,000	42 J	600 J	40 J	33 J	55 J
Total Cyanide	1,600	0.28 U	0.26 U	0.25 U	0.28 U	0.28 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB18B-001 1-2	SB19-001 1-2	SB20-001 0-0.5	SB21-001 1-2	SB22-002 8-10
TCL Volatiles (mg/kg)						
Acetone	7,800	0.062 U	0.05	0.12	0.036	0.065
Benzene	12	0.012 U	0.039	0.0084 U	0.077	0.0089 U
Bromodichloromethane	10	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Bromoform	81	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Bromomethane	110	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
2-Butanone	--	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Carbon Disulfide	7,800	0.012 U	0.0081 U	0.011	0.0065 U	0.0089 U
Carbon Tetrachloride	5	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Chlorobenzene	1,600	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Chloroethane +	31,000	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Chloroform	100	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Chloromethane +	310	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Dibromochloromethane	1600	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1-Dichloroethane	7,800	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,2-Dichloroethane	7	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1-Dichloroethene	700	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
cis-1,2-Dichloroethene	780	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
trans-1,2-Dichloroethene	1,600	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,2-Dichloropropane	9	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
cis-1,3-Dichloropropene	6.4	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
trans-1,3-Dichloropropene	6.4	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Ethylbenzene	7,800	0.012 U	0.22	0.014	0.12	0.0089 U
2-Hexanone +	3,100	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
4-Methyl-2-Pentanone	--	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Methylene Chloride	85	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Methyl tert-butyl ether	780	NA	NA	NA	NA	NA
Styrene	16,000	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1,2,2-Tetrachloroethane +	4,700	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Tetrachloroethene	12	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Toluene	16,000	0.012 U	0.064	0.0097	0.018	0.0089 U
1,1,1-Trichloroethane	--	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1,2-Trichloroethane	310	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Trichloroethene	58	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Vinyl Chloride	0.46	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
m,p-Xylene*	160,000	0.012 U	0.2	0.031	0.034	0.0089 U
o-Xylene*	160,000	0.012 U	0.12	0.011	0.036	0.0089 U
Xylenes, Total	160,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB18B-001 1-2	SB19-001 1-2	SB20-001 0-0.5	SB21-001 1-2	SB22-002 8-10
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Bis(2-chloroethyl)ether **	0.6	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Bis(2-ethylhexyl)phthalate	46	1.2	0.63	2.7	0.59 J	0.39 U
4-Bromophenyl phenyl ether	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Butyl benzyl phthalate	16,000	0.35 U	0.36 U	0.58	0.38 U	0.39 U
Carbazole	32	0.35 U	3.2	0.53	0.91 J	0.39 U
4-Chloro-3-methylphenol +	5,500	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4-Chloroaniline	310	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Chloronaphthalene	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Chlorophenol	390	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Dibenzofuran +	310	0.35 U	0.94	0.38 U	0.9 J	0.39 U
1,2-Dichlorobenzene	7,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
1,3-Dichlorobenzene +	70	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
1,4-Dichlorobenzene	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
3,3´-Dichlorobenzidine **	1	0.7 U	0.72 U	0.75 U	0.75 U	0.78 U
2,4-Dichlorophenol	230	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Diethyl phthalate	63,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Dimethyl phthalate +	780,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Di-n-butyl phthalate	7,800	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2,4-Dimethylphenol	1,600	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrophenol	160	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene **	0.9	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2,6-Dinitrotoluene **	0.9	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Di-n-octyl phthalate	1,600	1.6	0.36 U	0.38 U	0.38 U	0.39 U
Hexachlorobenzene **	0.4	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Hexachlorobutadiene +	16	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Hexachlorocyclopentadiene	550	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Hexachloroethane	78	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Isophorone	15,600	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Methylnaphthalene +	310	0.47	20	0.59	2.3 J	0.39 U
2-Methylphenol	3,900	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4-Methylphenol +	390	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Nitroaniline	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
3-Nitroaniline	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
4-Nitroaniline	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
Nitrobenzene	39	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Nitrophenol	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
4-Nitrophenol	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
N-Nitrosodi-n-propylamine **	0.09	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
N-Nitrosodiphenylamine	130	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.015 U	0.015 U	0.016 U	0.38 U	0.39 U
Pentachlorophenol **	3	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
Phenol	47,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
1,2,4-Trichlorobenzene	780	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2,4,5-Trichlorophenol	7,800	0.7 U	0.72 U	0.75 U	0.75 U	0.78 U
2,4,6-Trichlorophenol	58	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) J - Indicates an estimated value.
(6) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(7) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB18B-001 1-2	SB19-001 1-2	SB20-001 0-0.5	SB21-001 1-2	SB22-002 8-10
PAHs (mg/kg)						
Acenaphthene	4,700	0.19	3.1	0.31	3.3 J	0.031
Acenaphthylene +	2,300	0.12	2.3	0.19	2.5 J	0.029 U
Anthracene	23,000	0.67	3.1	0.78	5 J	0.047
Benzo(a)anthracene	0.9	0.31	1.4	0.26	1.6 J	0.029 U
Benzo(b)fluoranthene	0.9	0.57	3.4	2	3.1 J	0.029 U
Benzo(k)fluoranthene	9	0.6	3	1.9	3.5 J	0.029 U
Benzo(g,h,i)perylene +	2,300	0.8	3	0.89	3.7 J	0.029 U
Benzo(a)pyrene	0.09	0.41	2.7	0.67	4 J	0.029 U
Chrysene	88	1.7	5.4	1.4	5.6 J	0.04
Dibenzo(a,h)anthracene	0.09	0.25	1.3	0.3	1.1 J	0.029 U
Fluoranthene	3,100	1.2	7.4	2.4	8.1 J	0.029 U
Fluorene	3,100	0.3	3.2	0.31	3.6 J	0.033
Indeno(1,2,3-cd)pyrene	0.9	0.52	2.5	0.62	2.5 J	0.029 U
Naphthalene	1,600	0.42	13	0.47	2.4 J	0.2
Phenanthrene +	2,300	1.9	9.7	2.5	13 J	0.13
Pyrene	2,300	1.8	8.9	1.9	14 J	0.029 U
PCBs (mg/kg)						
Aroclor 1016	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1221	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1232	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1242	--	1.9	0.55	1.3	0.1	0.094 U
Aroclor 1248	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1254	--	1.6	0.52	0.91 U	0.18 U	0.19 U
Aroclor 1260	--	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U
Total PCBs	1	4.010	1.588	2.754	0.824	0.850 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	1 J	0.98 J	1 J	0.97 UJ	1.1 UJ
Arsenic	13.0	4	2.5	4.3	6.9	5.7 J
Barium	5,500	99 J	69 J	150 J	76 J	34 J
Beryllium	160	0.79	0.5	0.87	0.48 U	0.57 U
Cadmium	78	1.1	0.44	1.3	0.89	0.57 U
Chromium	230	12 J	9.2 J	15 J	15 J	18 J
Copper	2,900	67 J	33 J	37 J	48 J	26 J
Lead	400	130 J	46 J	94 J	120 J	22
Mercury	23	0.2	0.1	0.53	0.33	0.029
Nickel	1,600	11 J	12 J	14 J	22 J	31 J
Selenium	390	0.93 U	0.82 U	1 U	0.97 U	1.1 U
Silver	390	0.93 U	0.82 U	1 U	0.97 U	1.1 U
Thallium	6.3	1.2	1.1	1.5	0.97 U	1.2
Zinc	23,000	240 J	98 J	210 J	150 J	46 J
Total Cyanide	1,600	0.26 U	0.25 U	0.32 U	0.3 U	0.3 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB23-001 1-2	SB24-001 1-2	SB25-001 1-2	SB25-002 3-5	SB25-003 12-14
TCL Volatiles (mg/kg)						
Acetone	7,800	0.056 U	0.056 U	0.12	0.11	0.058 U
Benzene	12	0.011 U	0.011 U	1.5	0.22	0.012 U
Bromodichloromethane	10	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Bromoform	81	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Bromomethane	110	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
2-Butanone	--	0.022 U	0.022 U	0.026	0.034 U	0.023 U
Carbon Disulfide	7,800	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Carbon Tetrachloride	5	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Chlorobenzene	1,600	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Chloroethane +	31,000	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
Chloroform	100	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Chloromethane +	310	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Dibromochloromethane	1600	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1-Dichloroethane	7,800	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,2-Dichloroethane	7	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1-Dichloroethene	700	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
cis-1,2-Dichloroethene	780	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
trans-1,2-Dichloroethene	1,600	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,2-Dichloropropane	9	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
cis-1,3-Dichloropropene	6.4	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
trans-1,3-Dichloropropene	6.4	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Ethylbenzene	7,800	0.011 U	0.016	2.8	4.6	0.012 U
2-Hexanone +	3,100	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
4-Methyl-2-Pentanone	--	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
Methylene Chloride	85	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
Methyl tert-butyl ether	780	NA	NA	NA	NA	NA
Styrene	16,000	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1,2,2-Tetrachloroethane +	4,700	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Tetrachloroethene	12	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Toluene	16,000	0.011 U	0.011 U	0.03	0.54	0.012 U
1,1,1-Trichloroethane	--	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1,2-Trichloroethane	310	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Trichloroethene	58	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Vinyl Chloride	0.46	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
m,p-Xylene*	160,000	0.011 U	0.011 U	0.068	6.7	0.012 U
o-Xylene*	160,000	0.011 U	0.011 U	0.72	6.8	0.012 U
Xylenes, Total	160,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB23-001 1-2	SB24-001 1-2	SB25-001 1-2	SB25-002 3-5	SB25-003 12-14
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Bis(2-chloroethyl)ether **	0.6	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Bis(2-ethylhexyl)phthalate	46	2.1	1.7 U	0.36 U	1.2	0.42
4-Bromophenyl phenyl ether	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Butyl benzyl phthalate	16,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Carbazole	32	1.8 U	4.1	1.9	5.7	0.4 U
4-Chloro-3-methylphenol +	5,500	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4-Chloroaniline	310	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Chloronaphthalene	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Chlorophenol	390	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4-Chlorophenyl phenyl ether	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Dibenzofuran +	310	1.8 U	1.7 U	0.84	4.7	0.4 U
1,2-Dichlorobenzene	7,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
1,3-Dichlorobenzene +	70	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
1,4-Dichlorobenzene	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
3,3´-Dichlorobenzidine **	1	3.7 U	3.5 U	0.72 U	0.81 U	0.8 U
2,4-Dichlorophenol	230	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Diethyl phthalate	63,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Dimethyl phthalate +	780,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Di-n-butyl phthalate	7,800	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2,4-Dimethylphenol	1,600	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4,6-Dinitro-2-methylphenol	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
2,4-Dinitrophenol	160	8.9 U	8.4 U	1.7 U	2 U	1.9 U
2,4-Dinitrotoluene **	0.9	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2,6-Dinitrotoluene **	0.9	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Di-n-octyl phthalate	1,600	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachlorobenzene **	0.4	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachlorobutadiene +	16	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachlorocyclopentadiene	550	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachloroethane	78	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Isophorone	15,600	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Methylnaphthalene +	310	1.8 U	1.7 U	4.1	58	0.4
2-Methylphenol	3,900	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4-Methylphenol +	390	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Nitroaniline	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
3-Nitroaniline	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
4-Nitroaniline	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
Nitrobenzene	39	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Nitrophenol	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
4-Nitrophenol	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
N-Nitrosodi-n-propylamine **	0.09	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
N-Nitrosodiphenylamine	130	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.078 U	0.073 U	0.015 U	0.017 U	0.017 U
Pentachlorophenol **	3	8.9 U	8.4 U	1.7 U	2 U	1.9 U
Phenol	47,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
1,2,4-Trichlorobenzene	780	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2,4,5-Trichlorophenol	7,800	3.7 U	3.5 U	0.72 U	0.81 U	0.8 U
2,4,6-Trichlorophenol	58	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB23-001 1-2	SB24-001 1-2	SB25-001 1-2	SB25-002 3-5	SB25-003 12-14
PAHs (mg/kg)						
Acenaphthene	4,700	2.1	0.63	8.3	19	0.03 U
Acenaphthylene +	2,300	5	0.34	6.1	8.9	0.03 U
Anthracene	23,000	4.1	2.1	8.1	16	0.03 U
Benzo(a)anthracene	0.9	5.9	0.29	8	14	0.03 U
Benzo(b)fluoranthene	0.9	3.1	1.5	4	7	0.03 U
Benzo(k)fluoranthene	9	3.2	1.3	3.3	7	0.03 U
Benzo(g,h,i)perylene +	2,300	1.6	1.5	2.3	3.7	0.03 U
Benzo(a)pyrene	0.09	5	1.7	5.1	9.2	0.03 U
Chrysene	88	6.6	3.6	9.1	15	0.03 U
Dibenzo(a,h)anthracene	0.09	1.4 U	0.72	0.84	0.94	0.03 U
Fluoranthene	3,100	9.4	6.4	16	20	0.03 U
Fluorene	3,100	2.4	0.67	7	26	0.067
Indeno(1,2,3-cd)pyrene	0.9	1.4 U	1.4	2.1	3.1 U	0.03 U
Naphthalene	1,600	1.8	0.65	6.7	28	0.6
Phenanthrene +	2,300	10	5.4	30	62	0.15
Pyrene	2,300	14	7	24	32	0.03 U
PCBs (mg/kg)						
Aroclor 1016	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1221	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1232	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1242	--	0.95	1.1	0.086 U	0.098 U	0.096 U
Aroclor 1248	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1254	--	0.72	0.9	0.17 U	0.2 U	0.19 U
Aroclor 1260	--	0.18 U	0.17 U	0.17 U	0.2 U	0.19 U
Total PCBs	1	2.206	2.518	0.770 U	0.890 U	0.860 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	1.1 J	1.1 J	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	13.0	5	2.5	3.2	7.8 J	11 J
Barium	5,500	98 J	110 J	130 J	92 J	110 J
Beryllium	160	0.76	0.62	0.76	1.3	1.2
Cadmium	78	0.88	1.2	0.59	0.56 U	0.57 U
Chromium	230	10 J	13 J	7.8 J	17 J	18 J
Copper	2,900	41 J	60 J	18 J	25 J	26 J
Lead	400	140 J	150 J	61 J	58	17
Mercury	23	0.21	0.2	0.17	0.35	0.03 U
Nickel	1,600	13 J	12 J	6.9 J	29 J	28 J
Selenium	390	0.99 U	0.96 U	1.1 U	1.1 U	1.1 U
Silver	390	0.99 U	0.96 U	1.1 U	1.1 U	1.1 U
Thallium	6.3	1.4	1.3	1.4	1.8	1.9
Zinc	23,000	120 J	270 J	73 J	58 J	41 J
Total Cyanide	1,600	0.28 U	0.22 U	0.27 U	0.26 U	0.31 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB27-001 5-7	SB27-002 10-12	SB28-001 2-3	SB28-002 5-7	SB29-001 3-5
TCL Volatiles (mg/kg)						
Acetone	7,800	0.046	0.035 U	0.093	0.048	0.055 U
Benzene	12	0.0084 U	0.0069 U	0.041	0.0076 U	0.011 U
Bromodichloromethane	10	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Bromoform	81	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Bromomethane	110	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
2-Butanone	--	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Carbon Disulfide	7,800	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Carbon Tetrachloride	5	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Chlorobenzene	1,600	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Chloroethane +	31,000	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Chloroform	100	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Chloromethane +	310	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Dibromochloromethane	1600	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1-Dichloroethane	7,800	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,2-Dichloroethane	7	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1-Dichloroethene	700	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
cis-1,2-Dichloroethene	780	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
trans-1,2-Dichloroethene	1,600	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,2-Dichloropropane	9	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
cis-1,3-Dichloropropene	6.4	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
trans-1,3-Dichloropropene	6.4	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Ethylbenzene	7,800	0.0084 U	0.0069 U	0.059	0.0076 U	0.011 U
2-Hexanone +	3,100	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
4-Methyl-2-Pentanone	--	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Methylene Chloride	85	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Methyl tert-butyl ether	780	NA	NA	NA	NA	NA
Styrene	16,000	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1,2,2-Tetrachloroethane +	4,700	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Tetrachloroethene	12	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Toluene	16,000	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1,1-Trichloroethane	--	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1,2-Trichloroethane	310	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Trichloroethene	58	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Vinyl Chloride	0.46	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
m,p-Xylene*	160,000	0.0084 U	0.0069 U	0.012	0.0076 U	0.011 U
o-Xylene*	160,000	0.0084 U	0.0069 U	0.015	0.0076 U	0.011 U
Xylenes, Total	160,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB27-001 5-7	SB27-002 10-12	SB28-001 2-3	SB28-002 5-7	SB29-001 3-5
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Bis(2-chloroethyl)ether **	0.6	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Bis(2-ethylhexyl)phthalate	46	0.38 U	0.38 U	0.45	0.4 U	0.39 U
4-Bromophenyl phenyl ether	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Butyl benzyl phthalate	16,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Carbazole	32	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Chloro-3-methylphenol +	5,500	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Chloroaniline	310	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Chloronaphthalene	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Chlorophenol	390	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Dibenzofuran +	310	0.38 U	0.38 U	0.5	0.4 U	0.39 U
1,2-Dichlorobenzene	7,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
1,3-Dichlorobenzene +	70	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
1,4-Dichlorobenzene	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
3,3´-Dichlorobenzidine **	1	0.76 U	0.76 U	0.78 U	0.79 U	0.78 U
2,4-Dichlorophenol	230	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Diethyl phthalate	63,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Dimethyl phthalate +	780,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Di-n-butyl phthalate	7,800	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2,4-Dimethylphenol	1,600	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrophenol	160	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene **	0.9	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2,6-Dinitrotoluene **	0.9	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Di-n-octyl phthalate	1,600	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachlorobenzene **	0.4	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachlorobutadiene +	16	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachlorocyclopentadiene	550	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachloroethane	78	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Isophorone	15,600	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Methylnaphthalene +	310	0.38 U	0.38 U	1.1	0.4 U	0.39 U
2-Methylphenol	3,900	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Methylphenol +	390	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Nitroaniline	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
3-Nitroaniline	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Nitroaniline	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Nitrobenzene	39	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Nitrophenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Nitrophenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine **	0.09	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
N-Nitrosodiphenylamine	130	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Pentachlorophenol **	3	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	47,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
1,2,4-Trichlorobenzene	780	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2,4,5-Trichlorophenol	7,800	0.76 U	0.76 U	0.78 U	0.79 U	0.78 U
2,4,6-Trichlorophenol	58	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB27-001 5-7	SB27-002 10-12	SB28-001 2-3	SB28-002 5-7	SB29-001 3-5
PAHs (mg/kg)						
Acenaphthene	4,700	0.029 U	0.029 U	1.7	0.03 U	0.035
Acenaphthylene +	2,300	0.029 U	0.029 U	1.4	0.03 U	0.029 U
Anthracene	23,000	0.029 U	0.029 U	3.5	0.03 U	0.038
Benzo(a)anthracene	0.9	0.029 U	0.029 U	1.1	0.03 U	0.029 U
Benzo(b)fluoranthene	0.9	0.029 U	0.029 U	1.8	0.03 U	0.029 U
Benzo(k)fluoranthene	9	0.029 U	0.029 U	1.9	0.03 U	0.029 U
Benzo(g,h,i)perylene +	2,300	0.029 U	0.029 U	3	0.03 U	0.029 U
Benzo(a)pyrene	0.09	0.029 U	0.029 U	2.6	0.03 U	0.029 U
Chrysene	88	0.029 U	0.029 U	3.8	0.03 U	0.052
Dibenzo(a,h)anthracene	0.09	0.029 U	0.029 U	0.89	0.03 U	0.029 U
Fluoranthene	3,100	0.029 U	0.029 U	0.051	0.03 U	0.029
Fluorene	3,100	0.029 U	0.029 U	1.1	0.03 U	0.033
Indeno(1,2,3-cd)pyrene	0.9	0.029 U	0.029 U	1.9	0.03 U	0.029 U
Naphthalene	1,600	0.029 U	0.029 U	1.4	0.03 U	0.094
Phenanthrene +	2,300	0.031	0.047	0.038	0.03 U	0.14
Pyrene	2,300	0.029 U	0.029 U	0.097	0.03 U	0.044
PCBs (mg/kg)						
Aroclor 1016	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1221	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1232	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1242	--	0.094 U	0.093 U	0.34	0.14	0.094 U
Aroclor 1248	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1254	--	0.19 U	0.19 U	0.2	0.19 U	0.19 U
Aroclor 1260	--	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Total PCBs	1	0.850 U	0.845 U	1.102	0.904	0.850 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	13.0	7.1 J	7 J	6.1	9.2 J	11 J
Barium	5,500	32 J	39 J	67 J	41 J	41 J
Beryllium	160	0.53 U	0.55 U	0.55 U	0.57 U	0.57 U
Cadmium	78	0.53 U	0.55 U	0.71	0.57 U	0.57 U
Chromium	230	16 J	17 J	14 J	18 J	18 J
Copper	2,900	39 J	29 J	42 J	27 J	30 J
Lead	400	20	19	120 J	31	23
Mercury	23	0.028 U	0.028 U	0.53	0.049	0.031
Nickel	1,600	31 J	30 J	20 J	33 J	38 J
Selenium	390	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Silver	390	12	1.1 U	1.1 U	1.1 U	1.1 U
Thallium	6.3	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Zinc	23,000	50 J	42 J	150 J	61 J	46 J
Total Cyanide	1,600	0.28 U	0.27 U	0.29 U	0.3 U	0.28 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB29-002 12-14	SB31-001 2-3	SB31-002 6-8	SB32-001 2-3	SB32-002 3-5
TCL Volatiles (mg/kg)						
Acetone	7,800	0.067 U	0.03	0.064 U	0.067 U	0.081 U
Benzene	12	0.013 U	0.024	0.013 U	5.2	0.77
Bromodichloromethane	10	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Bromoform	81	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Bromomethane	110	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
2-Butanone	--	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Carbon Disulfide	7,800	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Carbon Tetrachloride	5	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Chlorobenzene	1,600	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Chloroethane +	31,000	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Chloroform	100	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Chloromethane +	310	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Dibromochloromethane	1600	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1-Dichloroethane	7,800	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,2-Dichloroethane	7	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1-Dichloroethene	700	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
cis-1,2-Dichloroethene	780	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
trans-1,2-Dichloroethene	1,600	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,2-Dichloropropane	9	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
cis-1,3-Dichloropropene	6.4	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
trans-1,3-Dichloropropene	6.4	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Ethylbenzene	7,800	0.013 U	0.038	0.013 U	1.5	2
2-Hexanone +	3,100	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
4-Methyl-2-Pentanone	--	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Methylene Chloride	85	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Methyl tert-butyl ether	780	NA	NA	NA	NA	NA
Styrene	16,000	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1,2,2-Tetrachloroethane +	4,700	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Tetrachloroethene	12	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Toluene	16,000	0.013 U	0.032	0.013 U	0.77	0.016 U
1,1,1-Trichloroethane	--	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1,2-Trichloroethane	310	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Trichloroethene	58	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Vinyl Chloride	0.46	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
m,p-Xylene*	160,000	0.013 U	0.047	0.013 U	0.62	0.057
o-Xylene*	160,000	0.013 U	0.029	0.013 U	0.47	0.034
Xylenes, Total	160,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB29-002 12-14	SB31-001 2-3	SB31-002 6-8	SB32-001 2-3	SB32-002 3-5
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Bis(2-chloroethyl)ether **	0.6	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Bis(2-ethylhexyl)phthalate	46	0.39 U	0.33 U	0.37 U	0.99	0.87
4-Bromophenyl phenyl ether	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Butyl benzyl phthalate	16,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Carbazole	32	0.39 U	0.33 U	0.37 U	0.46	1.3
4-Chloro-3-methylphenol +	5,500	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4-Chloroaniline	310	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Chloronaphthalene	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Chlorophenol	390	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Dibenzofuran +	310	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
1,2-Dichlorobenzene	7,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
1,3-Dichlorobenzene +	70	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
1,4-Dichlorobenzene	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
3,3´-Dichlorobenzidine **	1	0.78 U	0.33 U	0.74 U	0.66 U	0.78 U
2,4-Dichlorophenol	230	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Diethyl phthalate	63,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Dimethyl phthalate +	780,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Di-n-butyl phthalate	7,800	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2,4-Dimethylphenol	1,600	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
2,4-Dinitrophenol	160	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
2,4-Dinitrotoluene **	0.9	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2,6-Dinitrotoluene **	0.9	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Di-n-octyl phthalate	1,600	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachlorobenzene **	0.4	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachlorobutadiene +	16	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachlorocyclopentadiene	550	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachloroethane	78	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Isophorone	15,600	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Methylnaphthalene +	310	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Methylphenol	3,900	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4-Methylphenol +	390	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Nitroaniline	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
3-Nitroaniline	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
4-Nitroaniline	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
Nitrobenzene	39	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Nitrophenol	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
4-Nitrophenol	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
N-Nitrosodi-n-propylamine **	0.09	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
N-Nitrosodiphenylamine	130	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.39 U	0.33 U	0.016 U	0.014 U	0.017 U
Pentachlorophenol **	3	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
Phenol	47,000	0.39 U	15	0.37 U	0.33 U	0.39 U
1,2,4-Trichlorobenzene	780	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2,4,5-Trichlorophenol	7,800	0.78 U	0.66 U	0.74 U	0.66 U	0.78 U
2,4,6-Trichlorophenol	58	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB29-002 12-14	SB31-001 2-3	SB31-002 6-8	SB32-001 2-3	SB32-002 3-5
PAHs (mg/kg)						
Acenaphthene	4,700	0.029 U	0.44	0.028 U	0.8	0.84
Acenaphthylene +	2,300	0.029 U	0.13 U	0.029	1.2	0.99
Anthracene	23,000	0.029 U	0.7	0.047	1.5	0.98
Benzo(a)anthracene	0.9	0.029 U	0.2	0.028 U	2.7	1.8
Benzo(b)fluoranthene	0.9	0.029 U	0.84	0.028 U	1.2	0.87
Benzo(k)fluoranthene	9	0.029 U	0.48	0.028 U	0.76	0.75
Benzo(g,h,i)perylene +	2,300	0.029 U	1.5	0.028 U	0.61	0.38
Benzo(a)pyrene	0.09	0.029 U	0.91	0.028 U	1.7	1.1
Chrysene	88	0.029 U	1.5	0.075	2.5	1.7
Dibenzo(a,h)anthracene	0.09	0.029 U	0.13 U	0.028 U	0.25 U	0.3 U
Fluoranthene	3,100	0.029 U	0.67	0.075	3.4	2.8
Fluorene	3,100	0.029 U	0.53	0.03	1	0.87
Indeno(1,2,3-cd)pyrene	0.9	0.029 U	1.1	0.028 U	0.56	0.34
Naphthalene	1,600	0.029 U	0.68	0.11	0.25 U	2.1
Phenanthrene +	2,300	0.036	2	0.17	3.8	3.7
Pyrene	2,300	0.029 U	1.1	0.13	4.6	4
PCBs (mg/kg)						
Aroclor 1016	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1221	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1232	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1242	--	0.095 U	3.7	0.093 U	1.3	0.15
Aroclor 1248	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1254	--	0.19 U	1.8	0.19 U	1.1	0.19 U
Aroclor 1260	--	0.19 U	0.17 U	0.19 U	0.17 U	0.19 U
Total PCBs	1	0.855 U	6.002	0.845 U	2.910	0.902
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	1.1 UJ	1 UJ	1.1 UJ	1.1 J	1.1 J
Arsenic	13.0	7.2 J	5	12 J	4.8	3.4 J
Barium	5,500	38 J	43 J	31 J	110 J	80 J
Beryllium	160	0.55 U	0.62	0.93	1	0.9
Cadmium	78	0.55 U	1.2	0.55 U	1.2	0.7
Chromium	230	17 J	16 J	19 J	29 J	13 J
Copper	2,900	27 J	33 J	29 J	91 J	35 J
Lead	400	18	120 J	18	190 J	65
Mercury	23	0.032	0.25	0.037	0.21	0.052
Nickel	1,600	32 J	18 J	31 J	18 J	11 J
Selenium	390	1.1 U	1 U	1.1 U	0.98 U	1.1 U
Silver	390	1.1 U	1 U	1.1 U	0.98 U	1.1 U
Thallium	6.3	1.1 U	1 U	1.2	1.3	1.5
Zinc	23,000	50 J	200 J	45 J	260 J	88 J
Total Cyanide	1,600	0.29 U	0.24 U	0.27 U	0.25 U	0.27 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB33-001 0-0.5	SB33-002 5-7	SB33-003 10-12	SP34-001 0-0.5	SP34-002 5-7
TCL Volatiles (mg/kg)						
Acetone	7,800	0.042 U	0.12	0.064 U	0.041 U	0.14
Benzene	12	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Bromodichloromethane	10	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Bromoform	81	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Bromomethane	110	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
2-Butanone	--	0.017 U	0.027	0.026 U	0.017 U	0.024 U
Carbon Disulfide	7,800	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Carbon Tetrachloride	5	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Chlorobenzene	1,600	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Chloroethane +	31,000	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
Chloroform	100	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Chloromethane +	310	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Dibromochloromethane	1600	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1-Dichloroethane	7,800	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,2-Dichloroethane	7	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1-Dichloroethene	700	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
cis-1,2-Dichloroethene	780	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
trans-1,2-Dichloroethene	1,600	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,2-Dichloropropane	9	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
cis-1,3-Dichloropropene	6.4	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
trans-1,3-Dichloropropene	6.4	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Ethylbenzene	7,800	0.01	0.012 U	0.013 U	0.015	0.012 U
2-Hexanone +	3,100	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
4-Methyl-2-Pentanone	--	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
Methylene Chloride	85	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
Methyl tert-butyl ether	780	NA	NA	NA	NA	NA
Styrene	16,000	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1,2,2-Tetrachloroethane +	4,700	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Tetrachloroethene	12	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Toluene	16,000	0.0084 U	0.012 U	0.013 U	0.013	0.012 U
1,1,1-Trichloroethane	--	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1,2-Trichloroethane	310	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Trichloroethene	58	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Vinyl Chloride	0.46	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
m,p-Xylene*	160,000	0.0084 U	0.012 U	0.013 U	0.043	0.012 U
o-Xylene*	160,000	0.0084 U	0.025	0.013 U	0.033	0.012 U
Xylenes, Total	160,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB33-001 0-0.5	SB33-002 5-7	SB33-003 10-12	SP34-001 0-0.5	SP34-002 5-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Bis(2-chloroethyl)ether **	0.6	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Bis(2-ethylhexyl)phthalate	46	2 U	0.4 U	0.39 U	2	0.4 U
4-Bromophenyl phenyl ether	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Butyl benzyl phthalate	16,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Carbazole	32	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Chloro-3-methylphenol +	5,500	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Chloroaniline	310	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Chloronaphthalene	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Chlorophenol	390	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Chlorophenyl phenyl ether	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Dibenzofuran +	310	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,2-Dichlorobenzene	7,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,3-Dichlorobenzene +	70	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,4-Dichlorobenzene	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
3,3´-Dichlorobenzidine **	1	4.1 U	0.81 U	0.79 U	3.5 U	0.8 U
2,4-Dichlorophenol	230	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Diethyl phthalate	63,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Dimethyl phthalate +	780,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Di-n-butyl phthalate	7,800	6.3	0.4 U	0.39 U	1.8 U	0.4 U
2,4-Dimethylphenol	1,600	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4,6-Dinitro-2-methylphenol	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
2,4-Dinitrophenol	160	9.9 U	2 U	1.9 U	8.6 U	1.9 U
2,4-Dinitrotoluene **	0.9	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2,6-Dinitrotoluene **	0.9	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Di-n-octyl phthalate	1,600	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachlorobenzene **	0.4	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachlorobutadiene +	16	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachlorocyclopentadiene	550	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachloroethane	78	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Isophorone	15,600	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Methylnaphthalene +	310	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Methylphenol	3,900	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Methylphenol +	390	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Nitroaniline	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
3-Nitroaniline	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
4-Nitroaniline	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
Nitrobenzene	39	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Nitrophenol	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
4-Nitrophenol	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
N-Nitrosodi-n-propylamine **	0.09	2 U	0.4 U	0.39 U	1.8 U	0.4 U
N-Nitrosodiphenylamine	130	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.087 U	0.017 U	0.017 U	0.075 U	0.017 U
Pentachlorophenol **	3	9.9 U	2 U	1.9 U	8.6 U	1.9 U
Phenol	47,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,2,4-Trichlorobenzene	780	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2,4,5-Trichlorophenol	7,800	4.1 U	0.81 U	0.79 U	3.5 U	0.8 U
2,4,6-Trichlorophenol	58	2 U	0.4 U	0.39 U	1.8 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB33-001 0-0.5	SB33-002 5-7	SB33-003 10-12	SP34-001 0-0.5	SP34-002 5-7
PAHs (mg/kg)						
Acenaphthene	4,700	1.5 U	0.031 U	0.03 U	0.13 U	0.12
Acenaphthylene +	2,300	1.6	0.031 U	0.03 U	0.19	0.086
Anthracene	23,000	1.8	0.031 U	0.03 U	0.36	0.17
Benzo(a)anthracene	0.9	2.8	0.031 U	0.03 U	0.13 U	0.094
Benzo(b)fluoranthene	0.9	1.7	0.031 U	0.03 U	0.24	0.13
Benzo(k)fluoranthene	9	1.5 U	0.031 U	0.03 U	0.24	0.14
Benzo(g,h,i)perylene +	2,300	1.5 U	0.031 U	0.03 U	0.57	0.36
Benzo(a)pyrene	0.09	1.8	0.031 U	0.03 U	0.13	0.14
Chrysene	88	3.2	0.031 U	0.041	0.75	0.39
Dibenzo(a,h)anthracene	0.09	1.5 U	0.031 U	0.03 U	0.13 U	0.11
Fluoranthene	3,100	3.7	0.031 U	0.039	0.21	0.33
Fluorene	3,100	1.5 U	0.031 U	0.03 U	0.13 U	0.31
Indeno(1,2,3-cd)pyrene	0.9	1.5 U	0.031 U	0.03 U	0.29	0.24
Naphthalene	1,600	2.1	0.14	0.042	0.38	0.03 U
Phenanthrene +	2,300	4.1	0.076	0.083	1.3	0.13
Pyrene	2,300	5.5	0.047	0.033	0.36	1.2
PCBs (mg/kg)						
Aroclor 1016	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1221	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1232	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1242	--	2.5	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1248	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1254	--	2.2	0.19 U	0.19 U	1.7 U	0.2 U
Aroclor 1260	--	0.18 U	0.19 U	0.19 U	1.7 U	0.2 U
Total PCBs	1	5.232	0.860 U	0.850 U	7.750 U	0.890 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	1.1 UJ	1.1 UJ	1.1 UJ	1 UJ	1.2 UJ
Arsenic	13.0	5.9	5.1 J	17 J	1.2	7.5 J
Barium	5,500	100 J	97 J	63 J	59 J	100 J
Beryllium	160	0.86	1.2	1	0.57	1.3
Cadmium	78	0.59	0.59	0.54 U	0.54	0.59 U
Chromium	230	11 J	17 J	16 J	5.1 J	21 J
Copper	2,900	43 J	31 J	55 J	6.8 J	28 J
Lead	400	140 J	17	30	25 J	19
Mercury	23	0.28	0.046	0.023 U	0.026 U	0.031 U
Nickel	1,600	12 J	26 J	30 J	7.4 J	33 J
Selenium	390	1.1 U	1.1 U	1.1 U	1 U	1.2 U
Silver	390	1.1 U	1.1 U	1.1 U	1 U	1.2 U
Thallium	6.3	1.5	1.9	2	1.3	2.1
Zinc	23,000	69 J	54 J	43 J	29 J	53 J
Total Cyanide	1,600	0.29 U	0.34 U	0.29 U	0.27 U	0.31 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP35-001 1-2	SP35-002 6-7	SP35-003 12-13	SP37-001 1-2	SP37-002 8-9
TCL Volatiles (mg/kg)						
Acetone	7,800	0.14	0.13	0.042 U	0.044 U	0.082
Benzene	12	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Bromodichloromethane	10	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Bromoform	81	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Bromomethane	110	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
2-Butanone	--	0.015	0.027	0.017 U	0.018 U	0.02 U
Carbon Disulfide	7,800	0.013	0.012 U	0.0084 U	0.0088 U	0.0099 U
Carbon Tetrachloride	5	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Chlorobenzene	1,600	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Chloroethane +	31,000	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
Chloroform	100	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Chloromethane +	310	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Dibromochloromethane	1600	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1-Dichloroethane	7,800	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,2-Dichloroethane	7	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1-Dichloroethene	700	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
cis-1,2-Dichloroethene	780	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
trans-1,2-Dichloroethene	1,600	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,2-Dichloropropane	9	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
cis-1,3-Dichloropropene	6.4	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
trans-1,3-Dichloropropene	6.4	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Ethylbenzene	7,800	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
2-Hexanone +	3,100	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
4-Methyl-2-Pentanone	--	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
Methylene Chloride	85	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
Methyl tert-butyl ether	780	NA	NA	NA	NA	NA
Styrene	16,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1,2,2-Tetrachloroethane +	4,700	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Tetrachloroethene	12	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Toluene	16,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1,1-Trichloroethane	--	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1,2-Trichloroethane	310	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Trichloroethene	58	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Vinyl Chloride	0.46	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
m,p-Xylene*	160,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
o-Xylene*	160,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Xylenes, Total	160,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP35-001 1-2	SP35-002 6-7	SP35-003 12-13	SP37-001 1-2	SP37-002 8-9
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Bis(2-chloroethyl)ether **	0.6	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Bis(2-ethylhexyl)phthalate	46	5.6	0.39 U	0.39 U	0.42 U	0.39 U
4-Bromophenyl phenyl ether	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Butyl benzyl phthalate	16,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Carbazole	32	0.47	0.39 U	0.39 U	0.67	0.39 U
4-Chloro-3-methylphenol +	5,500	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4-Chloroaniline	310	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Chloronaphthalene	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Chlorophenol	390	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Dibenzofuran +	310	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,2-Dichlorobenzene	7,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,3-Dichlorobenzene +	70	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,4-Dichlorobenzene	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
3,3´-Dichlorobenzidine **	1	0.71 U	0.79 U	0.77 U	0.85 U	0.77 U
2,4-Dichlorophenol	230	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Diethyl phthalate	63,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Dimethyl phthalate +	780,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Di-n-butyl phthalate	7,800	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2,4-Dimethylphenol	1,600	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
2,4-Dinitrophenol	160	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
2,4-Dinitrotoluene **	0.9	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2,6-Dinitrotoluene **	0.9	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Di-n-octyl phthalate	1,600	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachlorobenzene **	0.4	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachlorobutadiene +	16	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachlorocyclopentadiene	550	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachloroethane	78	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Isophorone	15,600	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Methylnaphthalene +	310	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Methylphenol	3,900	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4-Methylphenol +	390	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Nitroaniline	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
3-Nitroaniline	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
4-Nitroaniline	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
Nitrobenzene	39	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Nitrophenol	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
4-Nitrophenol	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
N-Nitrosodi-n-propylamine **	0.09	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
N-Nitrosodiphenylamine	130	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.015 U	0.017 U	0.016 U	0.018 U	0.016 U
Pentachlorophenol **	3	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
Phenol	47,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,2,4-Trichlorobenzene	780	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2,4,5-Trichlorophenol	7,800	0.71 U	0.79 U	0.77 U	0.85 U	0.77 U
2,4,6-Trichlorophenol	58	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP35-001 1-2	SP35-002 6-7	SP35-003 12-13	SP37-001 1-2	SP37-002 8-9
PAHs (mg/kg)						
Acenaphthene	4,700	0.11	0.03 U	0.029 U	0.13	0.029 U
Acenaphthylene +	2,300	0.082	0.03 U	0.029 U	0.074	0.029 U
Anthracene	23,000	0.15	0.03 U	0.029 U	0.33	0.029 U
Benzo(a)anthracene	0.9	0.19	0.064	0.029 U	0.17	0.029 U
Benzo(b)fluoranthene	0.9	0.47	0.041	0.029 U	0.38	0.029 U
Benzo(k)fluoranthene	9	0.53	0.056	0.029 U	0.87	0.029 U
Benzo(g,h,i)perylene +	2,300	0.57	0.037	0.029 U	0.35	0.029 U
Benzo(a)pyrene	0.09	0.33	0.072	0.029 U	0.32	0.029 U
Chrysene	88	0.71	0.066	0.029 U	1.1	0.029 U
Dibenzo(a,h)anthracene	0.09	0.076	0.03 U	0.029 U	0.19	0.029 U
Fluoranthene	3,100	0.55	0.074	0.029 U	2	0.029 U
Fluorene	3,100	0.086	0.03 U	0.029 U	0.12	0.029 U
Indeno(1,2,3-cd)pyrene	0.9	0.18	0.036	0.029 U	0.36	0.029 U
Naphthalene	1,600	0.16	0.03 U	0.029 U	0.18	0.056
Phenanthrene +	2,300	0.7	0.03 U	0.029 U	1	0.029 U
Pyrene	2,300	0.63	0.074	0.029 U	2.1	0.029 U
PCBs (mg/kg)						
Aroclor 1016	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1221	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1232	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1242	--	8.5	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1248	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1254	--	6	0.19 U	0.19 U	0.2 U	0.18 U
Aroclor 1260	--	0.17 U	0.19 U	0.19 U	0.2 U	0.18 U
Total PCBs	1	15.014	0.855 U	0.855 U	0.900 U	0.820 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	6.5 J	1.1 UJ	1.1 UJ	1.2 UJ	0.97 UJ
Arsenic	13.0	20	5.8 J	12 J	7.2	15 J
Barium	5,500	520 J	98 J	89 J	120 J	98 J
Beryllium	160	1.4	0.83	1.1	1.1	1.2
Cadmium	78	8.1	0.56 U	0.56 U	0.72	0.53
Chromium	230	320 J	11 J	20 J	19 J	20 J
Copper	2,900	480 J	11 J	30 J	28 J	38 J
Lead	400	1400 J	36	25	61 J	22
Mercury	23	2.6	0.14	0.024 U	0.33	0.026 U
Nickel	1,600	210 J	12 J	35 J	26 J	38 J
Selenium	390	0.99 U	1.1 U	1.1 U	1.2 U	0.97 U
Silver	390	1	1.1 U	1.1 U	1.2 U	0.97 U
Thallium	6.3	1.3	2	2.2	2	2
Zinc	23,000	1600 J	40 J	49 J	73 J	46 J
Total Cyanide	1,600	0.28 U	0.29 U	0.24 U	0.35 U	0.25 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP37-003 12-13	SB38-001 5-7	SP39-001 1-2	SP39-002 5-6	SP39-003 10-11
TCL Volatiles (mg/kg)						
Acetone	7,800	0.066 J	0.12 J	0.036 U	0.11	0.047 U
Benzene	12	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Bromodichloromethane	10	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Bromoform	81	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Bromomethane	110	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
2-Butanone	--	0.023 U	0.029 UJ	0.014 U	0.027	0.019 U
Carbon Disulfide	7,800	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Carbon Tetrachloride	5	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Chlorobenzene	1,600	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Chloroethane +	31,000	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
Chloroform	100	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Chloromethane +	310	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Dibromochloromethane	1600	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1-Dichloroethane	7,800	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,2-Dichloroethane	7	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1-Dichloroethene	700	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
cis-1,2-Dichloroethene	780	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
trans-1,2-Dichloroethene	1,600	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,2-Dichloropropane	9	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
cis-1,3-Dichloropropene	6.4	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
trans-1,3-Dichloropropene	6.4	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Ethylbenzene	7,800	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
2-Hexanone +	3,100	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
4-Methyl-2-Pentanone	--	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
Methylene Chloride	85	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
Methyl tert-butyl ether	780	NA	NA	NA	NA	NA
Styrene	16,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1,2,2-Tetrachloroethane +	4,700	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Tetrachloroethene	12	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Toluene	16,000	0.012 U	0.014 UJ	0.008	0.013 U	0.0094 U
1,1,1-Trichloroethane	--	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1,2-Trichloroethane	310	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Trichloroethene	58	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Vinyl Chloride	0.46	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
m,p-Xylene*	160,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
o-Xylene*	160,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Xylenes, Total	160,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) J - Indicates an estimated value.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP37-003 12-13	SB38-001 5-7	SP39-001 1-2	SP39-002 5-6	SP39-003 10-11
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Bis(2-chloroethyl)ether **	0.6	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Bis(2-ethylhexyl)phthalate	46	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Bromophenyl phenyl ether	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Butyl benzyl phthalate	16,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Carbazole	32	0.38 U	0.53	1.7 U	0.4 U	0.38 U
4-Chloro-3-methylphenol +	5,500	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Chloroaniline	310	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Chloronaphthalene	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Chlorophenol	390	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Chlorophenyl phenyl ether	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Dibenzofuran +	310	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,2-Dichlorobenzene	7,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,3-Dichlorobenzene +	70	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,4-Dichlorobenzene	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
3,3´-Dichlorobenzidine **	1	0.75 U	0.83 U	3.5 U	0.8 U	0.77 U
2,4-Dichlorophenol	230	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Diethyl phthalate	63,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Dimethyl phthalate +	780,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Di-n-butyl phthalate	7,800	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2,4-Dimethylphenol	1,600	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4,6-Dinitro-2-methylphenol	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
2,4-Dinitrophenol	160	1.8 U	2 U	8.4 U	1.9 U	1.9 U
2,4-Dinitrotoluene **	0.9	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2,6-Dinitrotoluene **	0.9	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Di-n-octyl phthalate	1,600	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachlorobenzene **	0.4	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachlorobutadiene +	16	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachlorocyclopentadiene	550	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachloroethane	78	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Isophorone	15,600	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Methylnaphthalene +	310	0.38 U	1.7	1.7 U	0.4 U	0.38 U
2-Methylphenol	3,900	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Methylphenol +	390	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Nitroaniline	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
3-Nitroaniline	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
4-Nitroaniline	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
Nitrobenzene	39	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Nitrophenol	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
4-Nitrophenol	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine **	0.09	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
N-Nitrosodiphenylamine	130	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.018 U	0.074 U	0.017 U	0.016 U
Pentachlorophenol **	3	1.8 U	2 U	8.4 U	1.9 U	1.9 U
Phenol	47,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,2,4-Trichlorobenzene	780	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2,4,5-Trichlorophenol	7,800	0.75 U	0.83 U	3.5 U	0.8 U	0.77 U
2,4,6-Trichlorophenol	58	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP37-003 12-13	SB38-001 5-7	SP39-001 1-2	SP39-002 5-6	SP39-003 10-11
PAHs (mg/kg)						
Acenaphthene	4,700	0.028 U	0.42	1.3 U	0.056	0.029 U
Acenaphthylene +	2,300	0.028 U	0.37	1.3 U	0.03 U	0.029 U
Anthracene	23,000	0.028 U	1.7	1.3 U	0.29	0.03
Benzo(a)anthracene	0.9	0.028 U	1.9	1.3 U	0.13	0.029 U
Benzo(b)fluoranthene	0.9	0.028 U	1.1	1.3 U	0.58	0.029 U
Benzo(k)fluoranthene	9	0.028 U	0.96	1.3 U	0.65	0.029 U
Benzo(g,h,i)perylene +	2,300	0.028 U	0.46	1.3 U	0.31	0.029 U
Benzo(a)pyrene	0.09	0.028 U	0.89	1.3 U	0.64	0.029 U
Chrysene	88	0.028 U	2.3	1.3 U	1.1	0.056
Dibenzo(a,h)anthracene	0.09	0.028 U	0.15	1.3 U	0.23	0.029 U
Fluoranthene	3,100	0.028 U	4.1	1.3 U	1.6	0.081
Fluorene	3,100	0.028 U	0.7	1.3 U	0.056	0.029 U
Indeno(1,2,3-cd)pyrene	0.9	0.028 U	0.38	1.3 U	0.3 U	0.029 U
Naphthalene	1,600	0.028 U	2	1.3 U	0.032	0.029 U
Phenanthrene +	2,300	0.028 U	5.7	1.3	0.81	0.071
Pyrene	2,300	0.028 U	4.7	2	1.7	0.076
PCBs (mg/kg)						
Aroclor 1016	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1221	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1232	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1242	--	0.092 U	0.1 U	0.087 U	0.1 U	0.14
Aroclor 1248	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1254	--	0.18 U	0.2 U	0.17 U	0.2 U	0.19 U
Aroclor 1260	--	0.18 U	0.2 U	0.17 U	0.2 U	0.19 U
Total PCBs	1	0.820 U	0.900 U	0.775 U	0.900 U	0.900
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	1.2 UJ	1.3 UJ	1.1 UJ	6 J	1 UJ
Arsenic	13.0	7.7 J	7.7 J	1.7	10 J	8.1 J
Barium	5,500	85 J	49 J	57 J	140 J	83 J
Beryllium	160	1.1	1.1	0.59	1.1	1.1
Cadmium	78	0.59 U	0.69	0.95	1	0.51 U
Chromium	230	19 J	22 J	5.6 J	11 J	19 J
Copper	2,900	25 J	33 J	9.1 J	59 J	30 J
Lead	400	17	40	23 J	970	19
Mercury	23	0.029 U	0.051	0.025 U	6.2	0.027
Nickel	1,600	25 J	28 J	8.8 J	13 J	29 J
Selenium	390	1.2 U	1.3 U	1.1 U	1.1 U	1 U
Silver	390	1.2 U	1.3 U	1.1 U	1.1 U	1 U
Thallium	6.3	1.8	1.5	1.4	1.6	1.9
Zinc	23,000	37 J	88 J	33 J	200 J	40 J
Total Cyanide	1,600	0.31 U	0.33 U	0.28 U	0.31 U	0.3 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP40-002 7-8	SP40-003 14-15	SP43-001 2-3	SP43-002 3.5-4.5	SP43-003 11-12
TCL Volatiles (mg/kg)						
Acetone	7,800	0.071	0.043 U	0.15	0.063 U	0.041 U
Benzene	12	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Bromodichloromethane	10	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Bromoform	81	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Bromomethane	110	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
2-Butanone	--	0.02 U	0.017 U	0.031	0.025 U	0.017 U
Carbon Disulfide	7,800	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Carbon Tetrachloride	5	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Chlorobenzene	1,600	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Chloroethane +	31,000	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
Chloroform	100	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Chloromethane +	310	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Dibromochloromethane	1600	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1-Dichloroethane	7,800	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,2-Dichloroethane	7	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1-Dichloroethene	700	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
cis-1,2-Dichloroethene	780	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
trans-1,2-Dichloroethene	1,600	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,2-Dichloropropane	9	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
cis-1,3-Dichloropropene	6.4	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
trans-1,3-Dichloropropene	6.4	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Ethylbenzene	7,800	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
2-Hexanone +	3,100	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
4-Methyl-2-Pentanone	--	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
Methylene Chloride	85	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
Methyl tert-butyl ether	780	NA	NA	NA	NA	NA
Styrene	16,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1,2,2-Tetrachloroethane +	4,700	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Tetrachloroethene	12	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Toluene	16,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1,1-Trichloroethane	--	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1,2-Trichloroethane	310	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Trichloroethene	58	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Vinyl Chloride	0.46	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
m,p-Xylene*	160,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
o-Xylene*	160,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Xylenes, Total	160,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP40-002 7-8	SP40-003 14-15	SP43-001 2-3	SP43-002 3.5-4.5	SP43-003 11-12
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Bis(2-chloroethyl)ether **	0.6	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Bis(2-ethylhexyl)phthalate	46	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Bromophenyl phenyl ether	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Butyl benzyl phthalate	16,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Carbazole	32	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Chloro-3-methylphenol +	5,500	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Chloroaniline	310	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Chloronaphthalene	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Chlorophenol	390	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Dibenzofuran +	310	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,2-Dichlorobenzene	7,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,3-Dichlorobenzene +	70	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,4-Dichlorobenzene	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
3,3´-Dichlorobenzidine **	1	0.77 U	0.77 U	0.85 U	0.78 U	0.78 U
2,4-Dichlorophenol	230	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Diethyl phthalate	63,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Dimethyl phthalate +	780,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Di-n-butyl phthalate	7,800	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2,4-Dimethylphenol	1,600	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
2,4-Dinitrophenol	160	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
2,4-Dinitrotoluene **	0.9	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2,6-Dinitrotoluene **	0.9	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Di-n-octyl phthalate	1,600	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachlorobenzene **	0.4	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachlorobutadiene +	16	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachlorocyclopentadiene	550	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachloroethane	78	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Isophorone	15,600	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Methylnaphthalene +	310	0.39 U	0.39 U	0.43 U	1.6	0.39 U
2-Methylphenol	3,900	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Methylphenol +	390	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Nitroaniline	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
3-Nitroaniline	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
4-Nitroaniline	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
Nitrobenzene	39	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Nitrophenol	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
4-Nitrophenol	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine **	0.09	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
N-Nitrosodiphenylamine	130	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.018 U	0.016 U	0.016 U
Pentachlorophenol **	3	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
Phenol	47,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,2,4-Trichlorobenzene	780	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2,4,5-Trichlorophenol	7,800	0.77 U	0.77 U	0.85 U	0.78 U	0.78 U
2,4,6-Trichlorophenol	58	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP40-002 7-8	SP40-003 14-15	SP43-001 2-3	SP43-002 3.5-4.5	SP43-003 11-12
PAHs (mg/kg)						
Acenaphthene	4,700	0.029 U	0.029 U	0.072	0.062	0.029 U
Acenaphthylene +	2,300	0.029 U	0.029 U	0.17	0.074	0.029 U
Anthracene	23,000	0.029 U	0.029 U	0.032 U	0.029	0.029 U
Benzo(a)anthracene	0.9	0.029 U	0.029 U	0.045	0.09	0.029 U
Benzo(b)fluoranthene	0.9	0.029 U	0.029 U	0.12	0.13	0.029 U
Benzo(k)fluoranthene	9	0.029 U	0.029 U	0.098	0.11	0.029 U
Benzo(g,h,i)perylene +	2,300	0.029 U	0.029 U	0.062	0.087	0.029 U
Benzo(a)pyrene	0.09	0.029 U	0.029 U	0.056	0.13	0.029 U
Chrysene	88	0.029 U	0.029 U	0.3	0.16	0.029 U
Dibenzo(a,h)anthracene	0.09	0.029 U	0.029 U	0.032 U	0.038	0.029 U
Fluoranthene	3,100	0.029 U	0.029 U	0.15	0.17	0.029 U
Fluorene	3,100	0.029 U	0.029 U	0.032 U	0.16	0.029 U
Indeno(1,2,3-cd)pyrene	0.9	0.029 U	0.029 U	0.043	0.076	0.029 U
Naphthalene	1,600	0.029 U	0.029 U	0.062	0.22	0.029 U
Phenanthrene +	2,300	0.029 U	0.029 U	0.19	0.38	0.029 U
Pyrene	2,300	0.029 U	0.029 U	0.14	0.088	0.029 U
PCBs (mg/kg)						
Aroclor 1016	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1221	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1232	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1242	--	0.093 U	0.094 U	0.1 U	0.28	0.097 U
Aroclor 1248	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1254	--	0.19 U	0.19 U	0.21 U	0.26	0.19 U
Aroclor 1260	--	0.19 U	0.19 U	0.21 U	0.2 U	0.19 U
Total PCBs	1	0.845 U	0.850 U	0.920 U	1.136	0.865 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	1.1 UJ	1 UJ	1.3 UJ	NA	1 UJ
Arsenic	13.0	10 J	8.3 J	9.5	NA	9 J
Barium	5,500	88 J	87 J	170 J	NA	91 J
Beryllium	160	1.1	1.1	1.2	NA	1.1
Cadmium	78	0.56 U	0.52 U	0.85	NA	0.5 U
Chromium	230	16 J	19 J	16 J	NA	21 J
Copper	2,900	33 J	28 J	73 J	NA	30 J
Lead	400	19	17	69 J	NA	19
Mercury	23	0.029 U	0.028 U	0.18	NA	0.03 U
Nickel	1,600	36 J	28 J	20 J	NA	33 J
Selenium	390	1.1 U	1 U	1.3 U	NA	1 U
Silver	390	1.1 U	1 U	1.3 U	NA	1 U
Thallium	6.3	2.2	1.9	1.9	NA	1.9
Zinc	23,000	52 J	45 J	100 J	NA	46 J
Total Cyanide	1,600	0.32 U	0.27 U	0.35 U	NA	0.27 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) NA - Not analyzed.
(8) J - Indicates an estimated value.
(9) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(10) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP44-001 0-0.5	SP44-002 6-7	SP44-003 12-13	SB45-001 0-0.5	SB46-001 10-12
TCL Volatiles (mg/kg)						
Acetone	7,800	0.079 U	0.082	0.069 U	0.065	0.036 U
Benzene	12	0.016 U	0.0089 U	0.014 U	0.12	0.0073 U
Bromodichloromethane	10	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Bromoform	81	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Bromomethane	110	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
2-Butanone	--	0.031 U	0.018 U	0.028 U	0.034	0.015 U
Carbon Disulfide	7,800	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Carbon Tetrachloride	5	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Chlorobenzene	1,600	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Chloroethane +	31,000	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
Chloroform	100	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Chloromethane +	310	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Dibromochloromethane	1600	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,1-Dichloroethane	7,800	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,2-Dichloroethane	7	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,1-Dichloroethene	700	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
cis-1,2-Dichloroethene	780	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
trans-1,2-Dichloroethene	1,600	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,2-Dichloropropane	9	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
cis-1,3-Dichloropropene	6.4	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
trans-1,3-Dichloropropene	6.4	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Ethylbenzene	7,800	0.016 U	0.0089 U	0.014 U	0.37	0.0073 U
2-Hexanone +	3,100	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
4-Methyl-2-Pentanone	--	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
Methylene Chloride	85	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
Methyl tert-butyl ether	780	NA	NA	NA	NA	0.0073 U
Styrene	16,000	0.016 U	0.0089 U	0.014 U	0.014	0.0073 U
1,1,2,2-Tetrachloroethane +	4,700	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Tetrachloroethene	12	0.023	0.0089 U	0.014 U	0.0094 U	0.0073 U
Toluene	16,000	0.016 U	0.0089 U	0.014 U	0.025	0.0073 U
1,1,1-Trichloroethane	--	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,1,2-Trichloroethane	310	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Trichloroethene	58	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Vinyl Chloride	0.46	0.031 U	0.018 U	0.028 U	0.019 U	0.0073 U
m,p-Xylene*	160,000	0.016 U	0.0089 U	0.014 U	0.057	NA
o-Xylene*	160,000	0.016 U	0.0089 U	0.014 U	0.17	NA
Xylenes, Total	160,000	NA	NA	NA	NA	0.015 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP44-001 0-0.5	SP44-002 6-7	SP44-003 12-13	SB45-001 0-0.5	SB46-001 10-12
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Bis(2-chloroethyl)ether **	0.6	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Bis(2-ethylhexyl)phthalate	46	9.7	0.4 U	0.39 U	2.1	0.43 U
4-Bromophenyl phenyl ether	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Butyl benzyl phthalate	16,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Carbazole	32	1.9 U	0.4 U	0.39 U	0.87	0.87
4-Chloro-3-methylphenol +	5,500	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4-Chloroaniline	310	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Chloronaphthalene	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Chlorophenol	390	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4-Chlorophenyl phenyl ether	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Dibenzofuran +	310	1.9 U	0.4 U	0.39 U	0.35 U	1.8
1,2-Dichlorobenzene	7,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
1,3-Dichlorobenzene +	70	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
1,4-Dichlorobenzene	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
3,3´-Dichlorobenzidine **	1	3.9 U	0.79 U	0.77 U	0.69 U	0.86 U
2,4-Dichlorophenol	230	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Diethyl phthalate	63,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Dimethyl phthalate +	780,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Di-n-butyl phthalate	7,800	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2,4-Dimethylphenol	1,600	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4,6-Dinitro-2-methylphenol	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
2,4-Dinitrophenol	160	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
2,4-Dinitrotoluene **	0.9	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
2,6-Dinitrotoluene **	0.9	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
Di-n-octyl phthalate	1,600	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachlorobenzene **	0.4	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachlorobutadiene +	16	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachlorocyclopentadiene	550	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachloroethane	78	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Isophorone	15,600	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Methylnaphthalene +	310	1.9 U	0.4 U	0.39 U	1.7	2.8
2-Methylphenol	3,900	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4-Methylphenol +	390	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Nitroaniline	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
3-Nitroaniline	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
4-Nitroaniline	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
Nitrobenzene	39	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
2-Nitrophenol	--	9.4 U	1.9 U	1.9 U	1.7 U	0.43 U
4-Nitrophenol	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
N-Nitrosodi-n-propylamine **	0.09	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
N-Nitrosodiphenylamine	130	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2, 2'-Oxybis(1-Chloropropane)	--	0.082 U	0.017 U	0.016 U	0.015 U	0.43 U
Pentachlorophenol **	3	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
Phenol	47,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
1,2,4-Trichlorobenzene	780	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2,4,5-Trichlorophenol	7,800	3.9 U	0.79 U	0.77 U	0.69 U	0.86 U
2,4,6-Trichlorophenol	58	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP44-001 0-0.5	SP44-002 6-7	SP44-003 12-13	SB45-001 0-0.5	SB46-001 10-12
PAHs (mg/kg)						
Acenaphthene	4,700	0.15 U	0.03 U	0.029 U	0.74	4.9
Acenaphthylene +	2,300	0.15 U	0.03 U	0.029 U	0.65	0.73
Anthracene	23,000	0.16	0.03 U	0.029 U	1.9	6.4
Benzo(a)anthracene	0.9	0.15 U	0.03 U	0.029 U	2.5	5.8
Benzo(b)fluoranthene	0.9	0.78	0.03 U	0.029 U	2	4.5
Benzo(k)fluoranthene	9	0.81	0.03 U	0.029 U	1.9	4.1
Benzo(g,h,i)perylene +	2,300	1.1	0.03 U	0.029 U	1.3	2.7
Benzo(a)pyrene	0.09	0.45	0.03 U	0.029 U	2.4	5.9
Chrysene	88	0.83	0.03 U	0.029 U	3.9	5.4
Dibenzo(a,h)anthracene	0.09	0.25	0.03 U	0.029 U	0.37	0.83
Fluoranthene	3,100	0.45	0.03 U	0.029 U	4.1	13
Fluorene	3,100	0.15 U	0.03 U	0.029 U	1.2	3.8
Indeno(1,2,3-cd)pyrene	0.9	0.69	0.03 U	0.029 U	0.94	2.4
Naphthalene	1,600	0.15 U	0.03 U	0.029 U	1.8	6.5
Phenanthrene +	2,300	0.42	0.03 U	0.029 U	3.6	17
Pyrene	2,300	0.64	0.03 U	0.029 U	6.8	14
PCBs (mg/kg)						
Aroclor 1016	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1221	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1232	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1242	--	1.5	0.096 U	0.093 U	5.2 U	NA
Aroclor 1248	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1254	--	1	0.19 U	0.19 U	5.2 U	NA
Aroclor 1260	--	0.19 U	0.19 U	0.19 U	0.17 U	NA
Total PCBs	1	3.066	0.860 U	0.845 U	10.906 U	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	0.98 J	1.1 UJ	1.2 UJ	0.95 UJ	NA
Arsenic	13.0	3.8	13 J	9.3 J	7.6	NA
Barium	5,500	140 J	79 J	94 J	59 J	NA
Beryllium	160	1.1	1.2	1.2	0.63	NA
Cadmium	78	1.5	0.57 U	0.58 U	1.1	NA
Chromium	230	21 J	20 J	20 J	13 J	NA
Copper	2,900	79 J	31 J	33 J	42 J	NA
Lead	400	210 J	19	20	240 J	NA
Mercury	23	0.38	0.03 U	0.026 U	0.3	NA
Nickel	1,600	16 J	39 J	35 J	17 J	NA
Selenium	390	0.94 U	1.1 U	1.2 U	0.95 U	NA
Silver	390	0.94 U	1.1 U	1.2 U	0.95 U	NA
Thallium	6.3	1.3	1.8	2.3	0.95 U	NA
Zinc	23,000	290 J	52 J	45 J	140 J	NA
Total Cyanide	1,600	0.28 U	0.32 U	0.31 U	1.3	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) NA - Not analyzed.
(8) J - Indicates an estimated value.
(9) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(10) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB46-002 16 -18	SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10	SB48-002 18 - 20
TCL Volatiles (mg/kg)						
Acetone	7,800	0.031 U	0.035 U	0.032 U	0.036 U	0.03 U
Benzene	12	0.0062 U	0.05	0.0065 U	0.0072 U	0.0059 U
Bromodichloromethane	10	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Bromoform	81	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Bromomethane	110	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
2-Butanone	--	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Carbon Disulfide	7,800	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Carbon Tetrachloride	5	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Chlorobenzene	1,600	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Chloroethane +	31,000	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Chloroform	100	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Chloromethane +	310	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Dibromochloromethane	1600	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1-Dichloroethane	7,800	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,2-Dichloroethane	7	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1-Dichloroethene	700	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
cis-1,2-Dichloroethene	780	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
trans-1,2-Dichloroethene	1,600	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,2-Dichloropropane	9	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
cis-1,3-Dichloropropene	6.4	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
trans-1,3-Dichloropropene	6.4	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Ethylbenzene	7,800	0.0062 U	0.33	0.0065 U	0.0072 U	0.0059 U
2-Hexanone +	3,100	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
4-Methyl-2-Pentanone	--	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Methylene Chloride	85	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Methyl tert-butyl ether	780	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Styrene	16,000	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1,2,2-Tetrachloroethane +	4,700	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Tetrachloroethene	12	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Toluene	16,000	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1,1-Trichloroethane	--	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1,2-Trichloroethane	310	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Trichloroethene	58	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Vinyl Chloride	0.46	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
m,p-Xylene*	160,000	NA	NA	NA	NA	NA
o-Xylene*	160,000	NA	NA	NA	NA	NA
Xylenes, Total	160,000	0.012 U	0.26	0.013 U	0.014 U	0.012 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB46-002 16 -18	SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10	SB48-002 18 - 20
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Bis(2-chloroethyl)ether **	0.6	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Bis(2-ethylhexyl)phthalate	46	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Bromophenyl phenyl ether	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Butyl benzyl phthalate	16,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Carbazole	32	0.42 U	1.1	0.41 U	0.57	0.41 U
4-Chloro-3-methylphenol +	5,500	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Chloroaniline	310	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Chloronaphthalene	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Chlorophenol	390	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Dibenzofuran +	310	0.42 U	2.5	0.41 U	1.5	0.41 U
1,2-Dichlorobenzene	7,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
1,3-Dichlorobenzene +	70	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
1,4-Dichlorobenzene	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
3,3´-Dichlorobenzidine **	1	0.83 U	0.88 U	0.82 U	0.89 U	0.82 U
2,4-Dichlorophenol	230	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Diethyl phthalate	63,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Dimethyl phthalate +	780,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Di-n-butyl phthalate	7,800	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2,4-Dimethylphenol	1,600	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4,6-Dinitro-2-methylphenol	--	2 U	2.1 U	2 U	2.2 U	2 U
2,4-Dinitrophenol	160	2 U	2.1 U	2 U	2.2 U	2 U
2,4-Dinitrotoluene **	0.9	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
2,6-Dinitrotoluene **	0.9	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
Di-n-octyl phthalate	1,600	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachlorobenzene **	0.4	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachlorobutadiene +	16	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachlorocyclopentadiene	550	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachloroethane	78	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Isophorone	15,600	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Methylnaphthalene +	310	0.42 U	27	0.41 U	2.5	1.1
2-Methylphenol	3,900	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Methylphenol +	390	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Nitroaniline	--	2 U	2.1 U	2 U	2.2 U	2 U
3-Nitroaniline	--	2 U	2.1 U	2 U	2.2 U	2 U
4-Nitroaniline	--	2 U	2.1 U	2 U	2.2 U	2 U
Nitrobenzene	39	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
2-Nitrophenol	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Nitrophenol	--	2 U	2.1 U	2 U	2.2 U	2 U
N-Nitrosodi-n-propylamine **	0.09	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
N-Nitrosodiphenylamine	130	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2, 2'-Oxybis(1-Chloropropane)	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Pentachlorophenol **	3	2 U	2.1 U	2 U	2.2 U	2 U
Phenol	47,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
1,2,4-Trichlorobenzene	780	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2,4,5-Trichlorophenol	7,800	0.83 U	0.88 U	0.82 U	0.89 U	0.82 U
2,4,6-Trichlorophenol	58	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB46-002 16 -18	SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10	SB48-002 18 - 20
PAHs (mg/kg)						
Acenaphthene	4,700	0.17	22	0.074	5.9	0.41
Acenaphthylene +	2,300	0.033	2.7	0.031 U	0.99	0.031 U
Anthracene	23,000	0.19	11	0.031 U	9.5	0.16
Benzo(a)anthracene	0.9	0.17	9	0.032	8.6	0.11
Benzo(b)fluoranthene	0.9	0.075	4.5	0.031 U	5.5	0.063
Benzo(k)fluoranthene	9	0.12	5.1	0.031 U	6.2	0.082
Benzo(g,h,i)perylene +	2,300	0.046	3.9	0.031 U	5.5	0.034
Benzo(a)pyrene	0.09	0.086	4.6	0.031 U	9.8	0.088
Chrysene	88	0.2	8	0.048	8.1	0.14
Dibenzo(a,h)anthracene	0.09	0.031 U	0.91	0.031 U	1.2	0.031 U
Fluoranthene	3,100	0.42	20	0.072	20	0.22
Fluorene	3,100	0.13	13	0.04	3.5	0.26
Indeno(1,2,3-cd)pyrene	0.9	0.035	2.5	0.031 U	4.2	0.031 U
Naphthalene	1,600	0.4	33	0.13	5.3	7.8
Phenanthrene +	2,300	0.6	43	0.12	21	0.52
Pyrene	2,300	0.52	26	0.088	22	0.21
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	1	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	NA	NA	NA	NA	NA
Arsenic	13.0	NA	NA	NA	NA	NA
Barium	5,500	NA	NA	NA	NA	NA
Beryllium	160	NA	NA	NA	NA	NA
Cadmium	78	NA	NA	NA	NA	NA
Chromium	230	NA	NA	NA	NA	NA
Copper	2,900	NA	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA	NA
Mercury	23	NA	NA	NA	NA	NA
Nickel	1,600	NA	NA	NA	NA	NA
Selenium	390	NA	NA	NA	NA	NA
Silver	390	NA	NA	NA	NA	NA
Thallium	6.3	NA	NA	NA	NA	NA
Zinc	23,000	NA	NA	NA	NA	NA
Total Cyanide	1,600	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB49-001 8 - 10	SB49B-001 14 - 16	SB50-002 14 - 16	SB50-003 20 - 22	SB51-001 10 -12
TCL Volatiles (mg/kg)						
Acetone	7,800	0.029 U	0.031 U	1.9 U	0.037 UJ	0.03 U
Benzene	12	0.0059 U	0.0063 U	2.9	0.0073 UJ	3.7
Bromodichloromethane	10	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Bromoform	81	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Bromomethane	110	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
2-Butanone	--	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Carbon Disulfide	7,800	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Carbon Tetrachloride	5	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Chlorobenzene	1,600	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Chloroethane +	31,000	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Chloroform	100	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Chloromethane +	310	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Dibromochloromethane	1600	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1-Dichloroethane	7,800	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,2-Dichloroethane	7	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1-Dichloroethene	700	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
cis-1,2-Dichloroethene	780	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
trans-1,2-Dichloroethene	1,600	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,2-Dichloropropane	9	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
cis-1,3-Dichloropropene	6.4	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
trans-1,3-Dichloropropene	6.4	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Ethylbenzene	7,800	0.0059 U	0.0063 U	30	0.56	5.8
2-Hexanone +	3,100	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
4-Methyl-2-Pentanone	--	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Methylene Chloride	85	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Methyl tert-butyl ether	780	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Styrene	16,000	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1,2,2-Tetrachloroethane +	4,700	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Tetrachloroethene	12	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Toluene	16,000	0.0059 U	0.0063 U	0.38 U	0.018 J	0.0094
1,1,1-Trichloroethane	--	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1,2-Trichloroethane	310	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Trichloroethene	58	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Vinyl Chloride	0.46	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
m,p-Xylene*	160,000	NA	NA	NA	NA	NA
o-Xylene*	160,000	NA	NA	NA	NA	NA
Xylenes, Total	160,000	0.012 U	0.013 U	21	2.1 J	3.9

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) J - Indicates an estimated value.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB49-001 8 - 10	SB49B-001 14 - 16	SB50-002 14 - 16	SB50-003 20 - 22	SB51-001 10 -12
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Bis(2-chloroethyl)ether **	0.6	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Bis(2-ethylhexyl)phthalate	46	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Bromophenyl phenyl ether	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Butyl benzyl phthalate	16,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Carbazole	32	0.42 U	0.41 U	0.46 U	0.45 U	4.8
4-Chloro-3-methylphenol +	5,500	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Chloroaniline	310	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Chloronaphthalene	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Chlorophenol	390	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Dibenzofuran +	310	0.42 U	0.41 U	1.2	0.45 U	3.4
1,2-Dichlorobenzene	7,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
1,3-Dichlorobenzene +	70	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
1,4-Dichlorobenzene	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
3,3´-Dichlorobenzidine **	1	0.84 U	0.82 U	0.91 U	0.89 U	0.87 U
2,4-Dichlorophenol	230	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Diethyl phthalate	63,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Dimethyl phthalate +	780,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Di-n-butyl phthalate	7,800	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2,4-Dimethylphenol	1,600	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4,6-Dinitro-2-methylphenol	--	2 U	2 U	2.2 U	2.2 U	2.1 U
2,4-Dinitrophenol	160	2 U	2 U	2.2 U	2.2 U	2.1 U
2,4-Dinitrotoluene **	0.9	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
2,6-Dinitrotoluene **	0.9	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
Di-n-octyl phthalate	1,600	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachlorobenzene **	0.4	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachlorobutadiene +	16	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachlorocyclopentadiene	550	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachloroethane	78	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Isophorone	15,600	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Methylnaphthalene +	310	0.42 U	0.41 U	7.5	0.45 U	52
2-Methylphenol	3,900	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Methylphenol +	390	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Nitroaniline	--	2 U	2 U	2.2 U	2.2 U	2.1 U
3-Nitroaniline	--	2 U	2 U	2.2 U	2.2 U	2.1 U
4-Nitroaniline	--	2 U	2 U	2.2 U	2.2 U	2.1 U
Nitrobenzene	39	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
2-Nitrophenol	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Nitrophenol	--	2 U	2 U	2.2 U	2.2 U	2.1 U
N-Nitrosodi-n-propylamine **	0.09	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
N-Nitrosodiphenylamine	130	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2, 2'-Oxybis(1-Chloropropane)	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Pentachlorophenol **	3	2 U	2 U	2.2 U	2.2 U	2.1 U
Phenol	47,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
1,2,4-Trichlorobenzene	780	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2,4,5-Trichlorophenol	7,800	0.84 U	0.82 U	0.91 U	0.89 U	0.87 U
2,4,6-Trichlorophenol	58	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB49-001 8 - 10	SB49B-001 14 - 16	SB50-002 14 - 16	SB50-003 20 - 22	SB51-001 10 -12
PAHs (mg/kg)						
Acenaphthene	4,700	0.32	0.031 U	3	0.086	28
Acenaphthylene +	2,300	0.19	0.031 U	0.44	0.034 U	4.1
Anthracene	23,000	0.44	0.031 U	2.6	0.18	20
Benzo(a)anthracene	0.9	1	0.035	3.9	0.42	17
Benzo(b)fluoranthene	0.9	0.78	0.031 U	2.4	0.27	8.2
Benzo(k)fluoranthene	9	0.74	0.032	3.8	0.38	7.4
Benzo(g,h,i)perylene +	2,300	0.68	0.031 U	0.74	0.077	8
Benzo(a)pyrene	0.09	1	0.041	4.4	0.46	16
Chrysene	88	1	0.053	3.1	0.42	17
Dibenzo(a,h)anthracene	0.09	0.11	0.031 U	0.24	0.037	1.4
Fluoranthene	3,100	1.9	0.058	7.2	0.66	36
Fluorene	3,100	0.24	0.031 U	2.2	0.098	21
Indeno(1,2,3-cd)pyrene	0.9	0.55	0.031 U	0.89	0.098	6.2
Naphthalene	1,600	0.2	0.041	44	0.52	67
Phenanthrene +	2,300	1.3	0.079	8.7	0.46	78
Pyrene	2,300	2.1	0.078	6.4	0.55	50
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	1	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	NA	NA	NA	NA	NA
Arsenic	13.0	NA	NA	NA	NA	NA
Barium	5,500	NA	NA	NA	NA	NA
Beryllium	160	NA	NA	NA	NA	NA
Cadmium	78	NA	NA	NA	NA	NA
Chromium	230	NA	NA	NA	NA	NA
Copper	2,900	NA	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA	NA
Mercury	23	NA	NA	NA	NA	NA
Nickel	1,600	NA	NA	NA	NA	NA
Selenium	390	NA	NA	NA	NA	NA
Silver	390	NA	NA	NA	NA	NA
Thallium	6.3	NA	NA	NA	NA	NA
Zinc	23,000	NA	NA	NA	NA	NA
Total Cyanide	1,600	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20
TCL Volatiles (mg/kg)							
Acetone	7,800	0.027 U	1.4 U	0.027 UJ	0.036 U	0.1	0.031 UJ
Benzene	12	0.0055 U	2.6	0.0089 J	0.0086	0.21	0.0062 UJ
Bromodichloromethane	10	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Bromoform	81	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Bromomethane	110	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
2-Butanone	--	0.011 U	0.55 U	0.011 UJ	0.015 U	0.023	0.012 UJ
Carbon Disulfide	7,800	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Carbon Tetrachloride	5	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Chlorobenzene	1,600	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Chloroethane +	31,000	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
Chloroform	100	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Chloromethane +	310	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Dibromochloromethane	1600	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1-Dichloroethane	7,800	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,2-Dichloroethane	7	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1-Dichloroethene	700	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
cis-1,2-Dichloroethene	780	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
trans-1,2-Dichloroethene	1,600	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,2-Dichloropropane	9	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
cis-1,3-Dichloropropene	6.4	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
trans-1,3-Dichloropropene	6.4	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Ethylbenzene	7,800	0.0055 U	11	0.043 J	0.0073 U	1.2	0.0062 UJ
2-Hexanone +	3,100	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
4-Methyl-2-Pentanone	--	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
Methylene Chloride	85	0.011 U	0.55 U	0.011 UJ	0.018	0.035	0.026 J
Methyl tert-butyl ether	780	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Styrene	16,000	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1,2,2-Tetrachloroethane +	4,700	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Tetrachloroethene	12	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Toluene	16,000	0.0055 U	0.7	0.0097 J	0.0073 U	0.013	0.0062 UJ
1,1,1-Trichloroethane	--	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1,2-Trichloroethane	310	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Trichloroethene	58	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Vinyl Chloride	0.46	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
m,p-Xylene*	160,000	NA	NA	NA	NA	NA	NA
o-Xylene*	160,000	NA	NA	NA	NA	NA	NA
Xylenes, Total	160,000	0.024	9.8	0.055 J	0.015 U	1.7	0.012 UJ

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) J - Indicates an estimated value.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20
TCL Semivolatiles (mg/kg)							
Bis(2-chloroethoxy)methane	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Bis(2-chloroethyl)ether **	0.6	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Bis(2-ethylhexyl)phthalate	46	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Bromophenyl phenyl ether	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Butyl benzyl phthalate	16,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Carbazole	32	0.41 U	0.4 U	0.39 U	0.41 U	5.1	0.4 U
4-Chloro-3-methylphenol +	5,500	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Chloroaniline	310	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Chloronaphthalene	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Chlorophenol	390	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Chlorophenyl phenyl ether	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Dibenzofuran +	310	0.82	0.91	0.39 U	0.41 U	4.9	0.4 U
1,2-Dichlorobenzene	7,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
1,3-Dichlorobenzene +	70	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
1,4-Dichlorobenzene	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
3,3´-Dichlorobenzidine **	1	0.82 U	0.8 U	0.77 U	0.82 U	0.85 U	0.8 U
2,4-Dichlorophenol	230	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Diethyl phthalate	63,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Dimethyl phthalate +	780,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Di-n-butyl phthalate	7,800	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2,4-Dimethylphenol	1,600	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4,6-Dinitro-2-methylphenol	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
2,4-Dinitrophenol	160	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
2,4-Dinitrotoluene **	0.9	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
2,6-Dinitrotoluene **	0.9	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
Di-n-octyl phthalate	1,600	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachlorobenzene **	0.4	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachlorobutadiene +	16	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachlorocyclopentadiene	550	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachloroethane	78	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Isophorone	15,600	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Methylnaphthalene +	310	4.5	19	1.8	0.41 U	37	0.4 U
2-Methylphenol	3,900	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Methylphenol +	390	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
3-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
4-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
Nitrobenzene	39	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
2-Nitrophenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Nitrophenol	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
N-Nitrosodi-n-propylamine **	0.09	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
N-Nitrosodiphenylamine	130	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Pentachlorophenol **	3	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
Phenol	47,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
1,2,4-Trichlorobenzene	780	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2,4,5-Trichlorophenol	7,800	0.82 U	0.8 U	0.77 U	0.82 U	0.85 U	0.8 U
2,4,6-Trichlorophenol	58	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20
PAHs (mg/kg)							
Acenaphthene	4,700	2.4	3.7	0.19	2	16	0.11
Acenaphthylene +	2,300	0.47	1	0.066	1.6	2.4	0.046
Anthracene	23,000	2.2	2.2	0.12	2.6	16	0.12
Benzo(a)anthracene	0.9	2.3	1.8	0.091	5.2	14	0.12
Benzo(b)fluoranthene	0.9	1.2	0.71	0.038	1.4	6.4	0.054
Benzo(k)fluoranthene	9	1.1	0.31	0.035	1.8	6.5	0.076
Benzo(g,h,i)perylene +	2,300	0.57	0.18	0.029 U	1	1.6	0.042
Benzo(a)pyrene	0.09	1.7	1.3	0.07	4.8	11	0.099
Chrysene	88	2	1.7	0.096	6.8	15	0.14
Dibenzo(a,h)anthracene	0.09	0.11	0.1	0.029 U	0.5	1.2	0.03 U
Fluoranthene	3,100	3.7	2.7	0.15	7.8	24	0.22
Fluorene	3,100	2.5	3.6	0.2	4	19	0.13
Indeno(1,2,3-cd)pyrene	0.9	0.59	0.35	0.029 U	0.92	1.8	0.031
Naphthalene	1,600	6.1	22	2.3	1.5	41	0.24
Phenanthrene +	2,300	7.6	11	0.65	14	57	0.48
Pyrene	2,300	4.2	4.5	0.22	12	27	0.27
PCBs (mg/kg)							
Aroclor 1016	--	NA	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA	NA
Total PCBs	1	NA	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)							
Antimony	31	NA	NA	NA	NA	NA	NA
Arsenic	13.0	NA	NA	NA	NA	NA	NA
Barium	5,500	NA	NA	NA	NA	NA	NA
Beryllium	160	NA	NA	NA	NA	NA	NA
Cadmium	78	NA	NA	NA	NA	NA	NA
Chromium	230	NA	NA	NA	NA	NA	NA
Copper	2,900	NA	NA	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA	NA	NA
Mercury	23	NA	NA	NA	NA	NA	NA
Nickel	1,600	NA	NA	NA	NA	NA	NA
Selenium	390	NA	NA	NA	NA	NA	NA
Silver	390	NA	NA	NA	NA	NA	NA
Thallium	6.3	NA	NA	NA	NA	NA	NA
Zinc	23,000	NA	NA	NA	NA	NA	NA
Total Cyanide	1,600	NA	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB54-001 8 - 10	SB54-002 14 - 16	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20
TCL Volatiles (mg/kg)						
Acetone	7,800	3.2 U	0.027 U	0.026	0.032 U	0.028 U
Benzene	12	5.7	0.0054 U	0.064	0.0064 U	0.0056 U
Bromodichloromethane	10	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Bromoform	81	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Bromomethane	110	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
2-Butanone	--	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Carbon Disulfide	7,800	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Carbon Tetrachloride	5	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Chlorobenzene	1,600	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Chloroethane +	31,000	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Chloroform	100	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Chloromethane +	310	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Dibromochloromethane	1600	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,1-Dichloroethane	7,800	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,2-Dichloroethane	7	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,1-Dichloroethene	700	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
cis-1,2-Dichloroethene	780	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
trans-1,2-Dichloroethene	1,600	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,2-Dichloropropane	9	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
cis-1,3-Dichloropropene	6.4	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
trans-1,3-Dichloropropene	6.4	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Ethylbenzene	7,800	25	0.0054 U	0.11	0.0064 U	0.0056 U
2-Hexanone +	3,100	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
4-Methyl-2-Pentanone	--	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Methylene Chloride	85	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Methyl tert-butyl ether	780	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Styrene	16,000	0.64 U	0.0054 U	0.016	0.0064 U	0.0056 U
1,1,2,2-Tetrachloroethane +	4,700	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Tetrachloroethene	12	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Toluene	16,000	0.84	0.0054 U	0.066	0.0064 U	0.0056 U
1,1,1-Trichloroethane	--	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,1,2-Trichloroethane	310	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Trichloroethene	58	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Vinyl Chloride **	0.46	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
m,p-Xylene*	160,000	NA	NA	NA	NA	NA
o-Xylene*	160,000	NA	NA	NA	NA	NA
Xylenes, Total	160,000	8.7	0.011 U	0.18	0.013 U	0.011 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) ** Values exceeded TACO screening level but were consistently non-detect, so no values were shaded.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB54-001 8 - 10	SB54-002 14 - 16	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Bis(2-chloroethyl)ether **	0.6	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Bis(2-ethylhexyl)phthalate	46	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Bromophenyl phenyl ether	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Butyl benzyl phthalate	16,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Carbazole	32	0.51	0.4 U	0.39 U	0.4 U	0.4 U
4-Chloro-3-methylphenol +	5,500	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Chloroaniline	310	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Chloronaphthalene	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Chlorophenol	390	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Dibenzofuran +	310	1.9	0.4 U	0.39 U	0.4 U	0.4 U
1,2-Dichlorobenzene	7,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
1,3-Dichlorobenzene +	70	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
1,4-Dichlorobenzene	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
3,3´-Dichlorobenzidine **	1	0.84 U	0.79 U	0.79 U	0.81 U	0.81 U
2,4-Dichlorophenol	230	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Diethyl phthalate	63,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Dimethyl phthalate +	780,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Di-n-butyl phthalate	7,800	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2,4-Dimethylphenol	1,600	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4,6-Dinitro-2-methylphenol	--	2 U	1.9 U	1.9 U	2 U	2 U
2,4-Dinitrophenol	160	2 U	1.9 U	1.9 U	2 U	2 U
2,4-Dinitrotoluene **	0.9	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
2,6-Dinitrotoluene **	0.9	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
Di-n-octyl phthalate	1,600	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachlorobenzene **	0.4	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachlorobutadiene +	16	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachlorocyclopentadiene	550	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachloroethane	78	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Isophorone	15,600	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Methylnaphthalene +	310	45	0.4 U	0.8	0.4 U	0.4 U
2-Methylphenol	3,900	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Methylphenol +	390	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2 U
3-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2 U
4-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2 U
Nitrobenzene	39	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
2-Nitrophenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Nitrophenol	--	2 U	1.9 U	1.9 U	2 U	2 U
N-Nitrosodi-n-propylamine **	0.09	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
N-Nitrosodiphenylamine	130	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Pentachlorophenol **	3	2 U	1.9 U	1.9 U	2 U	2 U
Phenol	47,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
1,2,4-Trichlorobenzene	780	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2,4,5-Trichlorophenol	7,800	0.84 U	0.79 U	0.79 U	0.81 U	0.81 U
2,4,6-Trichlorophenol	58	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB54-001 8 - 10	SB54-002 14 - 16	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20
PAHs (mg/kg)						
Acenaphthene	4,700	12	0.046	0.078	0.03 U	0.031 U
Acenaphthylene +	2,300	4	0.03 U	0.089	0.03 U	0.031 U
Anthracene	23,000	7.4	0.046	0.099	0.03 U	0.031 U
Benzo(a)anthracene	0.9	5.4	0.037	0.098	0.03 U	0.031 U
Benzo(b)fluoranthene	0.9	2.6	0.03 U	0.054	0.03 U	0.031 U
Benzo(k)fluoranthene	9	2.1	0.03 U	0.05	0.03 U	0.031 U
Benzo(g,h,i)perylene +	2,300	1.8	0.03 U	0.033	0.03 U	0.031 U
Benzo(a)pyrene	0.09	4.8	0.034	0.092	0.03 U	0.031 U
Chrysene	88	5.3	0.045	0.1	0.03 U	0.031 U
Dibenzo(a,h)anthracene	0.09	0.6	0.03 U	0.029 U	0.03 U	0.031 U
Fluoranthene	3,100	9.6	0.062	0.16	0.03 U	0.031 U
Fluorene	3,100	9.3	0.049	0.15	0.03 U	0.031 U
Indeno(1,2,3-cd)pyrene	0.9	1.6	0.03 U	0.029 U	0.03 U	0.031 U
Naphthalene	1,600	110	0.26	0.95	0.03 U	0.031 U
Phenanthrene +	2,300	27	0.15	0.58	0.067	0.037
Pyrene	2,300	14	0.095	0.31	0.03 U	0.031 U
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	1	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	NA	NA	NA	NA	NA
Arsenic	13.0	NA	NA	NA	NA	NA
Barium	5,500	NA	NA	NA	NA	NA
Beryllium	160	NA	NA	NA	NA	NA
Cadmium	78	NA	NA	NA	NA	NA
Chromium	230	NA	NA	NA	NA	NA
Copper	2,900	NA	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA	NA
Mercury	23	NA	NA	NA	NA	NA
Nickel	1,600	NA	NA	NA	NA	NA
Selenium	390	NA	NA	NA	NA	NA
Silver	390	NA	NA	NA	NA	NA
Thallium	6.3	NA	NA	NA	NA	NA
Zinc	23,000	NA	NA	NA	NA	NA
Total Cyanide	1,600	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB57-002 16 - 18	SB58-001 12 - 14	SB58-002 16 - 18	SB59-001 6 - 8	SB59-002 16 - 18
TCL Volatiles (mg/kg)						
Acetone	7,800	0.028 U	0.047 U	0.031 UJ	0.028 U	0.033 U
Benzene	12	0.0057 U	0.0094 U	0.0061 UJ	0.031	0.0067 U
Bromodichloromethane	10	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Bromoform	81	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Bromomethane	110	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
2-Butanone	--	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
Carbon Disulfide	7,800	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Carbon Tetrachloride	5	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Chlorobenzene	1,600	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Chloroethane +	31,000	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
Chloroform	100	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Chloromethane +	310	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Dibromochloromethane	1600	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1-Dichloroethane	7,800	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,2-Dichloroethane	7	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1-Dichloroethene	700	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
cis-1,2-Dichloroethene	780	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
trans-1,2-Dichloroethene	1,600	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,2-Dichloropropane	9	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
cis-1,3-Dichloropropene	6.4	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
trans-1,3-Dichloropropene	6.4	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Ethylbenzene	7,800	0.0057 U	0.0094 U	0.0061 UJ	0.071	0.0067 U
2-Hexanone +	3,100	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
4-Methyl-2-Pentanone	--	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
Methylene Chloride	85	0.011 U	0.019 U	0.012 UJ	0.017	0.016
Methyl tert-butyl ether	780	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Styrene	16,000	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1,2,2-Tetrachloroethane +	4,700	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Tetrachloroethene	12	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Toluene	16,000	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1,1-Trichloroethane	--	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1,2-Trichloroethane	310	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Trichloroethene	58	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Vinyl Chloride	0.46	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
m,p-Xylene*	160,000	NA	NA	NA	NA	NA
o-Xylene*	160,000	NA	NA	NA	NA	NA
Xylenes, Total	160,000	0.011 U	0.019 U	0.012 UJ	0.044	0.013 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) J - Indicates an estimated value.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB57-002 16 - 18	SB58-001 12 - 14	SB58-002 16 - 18	SB59-001 6 - 8	SB59-002 16 - 18
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Bis(2-chloroethyl)ether **	0.6	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Bis(2-ethylhexyl)phthalate	46	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Bromophenyl phenyl ether	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Butyl benzyl phthalate	16,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Carbazole	32	0.39 U	6.8	0.41 U	0.39 U	0.38 U
4-Chloro-3-methylphenol +	5,500	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Chloroaniline	310	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2-Chloronaphthalene	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2-Chlorophenol	390	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Dibenzofuran +	310	0.39 U	4.6	0.41 U	0.39 U	0.38 U
1,2-Dichlorobenzene	7,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
1,3-Dichlorobenzene +	70	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
1,4-Dichlorobenzene	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
3,3´-Dichlorobenzidine **	1	0.79 U	1.1 U	0.82 U	0.78 U	0.75 U
2,4-Dichlorophenol	230	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Diethyl phthalate	63,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Dimethyl phthalate +	780,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Di-n-butyl phthalate	7,800	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2,4-Dimethylphenol	1,600	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4,6-Dinitro-2-methylphenol	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
2,4-Dinitrophenol	160	1.9 U	2.6 U	2 U	1.9 U	1.8 U
2,4-Dinitrotoluene **	0.9	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
2,6-Dinitrotoluene **	0.9	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
Di-n-octyl phthalate	1,600	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachlorobenzene **	0.4	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachlorobutadiene +	16	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachlorocyclopentadiene	550	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachloroethane	78	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Isophorone	15,600	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2-Methylnaphthalene +	310	0.39 U	3.8	0.41 U	0.39 U	0.38 U
2-Methylphenol	3,900	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Methylphenol +	390	0.39 U	2.2	0.41 U	0.39 U	0.38 U
2-Nitroaniline	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
3-Nitroaniline	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
4-Nitroaniline	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
Nitrobenzene	39	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
2-Nitrophenol	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Nitrophenol	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
N-Nitrosodi-n-propylamine **	0.09	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
N-Nitrosodiphenylamine	130	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Pentachlorophenol **	3	1.9 U	2.6 U	2 U	1.9 U	1.8 U
Phenol	47,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
1,2,4-Trichlorobenzene	780	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2,4,5-Trichlorophenol	7,800	0.79 U	1.1 U	0.82 U	0.78 U	0.75 U
2,4,6-Trichlorophenol	58	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 2 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB57-002 16 - 18	SB58-001 12 - 14	SB58-002 16 - 18	SB59-001 6 - 8	SB59-002 16 - 18
PAHs (mg/kg)						
Acenaphthene	4,700	0.03 U	4.3	0.072	0.029 U	0.028 U
Acenaphthylene +	2,300	0.03 U	0.45	0.031 U	0.029 U	0.028 U
Anthracene	23,000	0.03 U	11	0.079	0.029 U	0.028 U
Benzo(a)anthracene	0.9	0.03 U	14	0.065	0.029 U	0.028 U
Benzo(b)fluoranthene	0.9	0.03 U	8.5	0.038	0.029 U	0.028 U
Benzo(k)fluoranthene	9	0.03 U	9.8	0.038	0.029 U	0.028 U
Benzo(g,h,i)perylene +	2,300	0.03 U	3.2	0.031 U	0.029 U	0.028 U
Benzo(a)pyrene	0.09	0.03 U	12	0.059	0.029 U	0.028 U
Chrysene	88	0.037	12	0.061	0.029	0.028 U
Dibenzo(a,h)anthracene	0.09	0.03 U	1.6	0.031 U	0.029 U	0.028 U
Fluoranthene	3,100	0.056	27	0.14	0.029	0.028 U
Fluorene	3,100	0.03 U	6.2	0.088	0.029 U	0.028 U
Indeno(1,2,3-cd)pyrene	0.9	0.03 U	3.8	0.031 U	0.029 U	0.028 U
Naphthalene	1,600	0.054	4	0.39	0.087	0.028 U
Phenanthrene +	2,300	0.11	27	0.24	0.089	0.075
Pyrene	2,300	0.057	23	0.11	0.05	0.028 U
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	1	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	31	NA	NA	NA	NA	NA
Arsenic	13.0	NA	NA	NA	NA	NA
Barium	5,500	NA	NA	NA	NA	NA
Beryllium	160	NA	NA	NA	NA	NA
Cadmium	78	NA	NA	NA	NA	NA
Chromium	230	NA	NA	NA	NA	NA
Copper	2,900	NA	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA	NA
Mercury	23	NA	NA	NA	NA	NA
Nickel	1,600	NA	NA	NA	NA	NA
Selenium	390	NA	NA	NA	NA	NA
Silver	390	NA	NA	NA	NA	NA
Thallium	6.3	NA	NA	NA	NA	NA
Zinc	23,000	NA	NA	NA	NA	NA
Total Cyanide	1,600	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-001 1-2	SB01-002 8-10	SP02-001 2-3	SP02-002 3-4	SP03-001 2-3
TCL Volatiles (mg/kg)						
Acetone	200,000	0.099	0.041 U	0.17	0.091	0.051
Benzene	2,300	0.0097 U	0.0082 U	0.055	0.015	0.0072 U
Bromodichloromethane	2,000	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Bromoform	16,000	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Bromomethane	1,000	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
2-Butanone	--	0.019 U	0.016 U	0.024 U	0.02	0.014 U
Carbon Disulfide	20,000	0.0097 U	0.0082 U	0.023	0.0081 U	0.0072 U
Carbon Tetrachloride	410	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Chlorobenzene	4,100	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Chloroethane +	82,000	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
Chloroform	2,000	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Chloromethane +	820	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Dibromochloromethane	41,000	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1-Dichloroethane	200,000	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,2-Dichloroethane	1,400	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1-Dichloroethene	1,800	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
cis-1,2-Dichloroethene	20,000	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
trans-1,2-Dichloroethene	41,000	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,2-Dichloropropane	1,800	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
cis-1,3-Dichloropropene	1,200	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
trans-1,3-Dichloropropene	1,200	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Ethylbenzene	20,000	0.0097 U	0.0082 U	0.044	0.049	0.0072 U
2-Hexanone +	8,200	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
4-Methyl-2-Pentanone	--	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
Methylene Chloride	12,000	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
Methyl tert-butyl ether	2,000	NA	NA	NA	NA	NA
Styrene	41,000	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1,2,2-Tetrachloroethane +	12,000	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Tetrachloroethene	2,400	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Toluene	410,000	0.0097 U	0.0082 U	0.036	0.0081 U	0.0072 U
1,1,1-Trichloroethane	--	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1,2-Trichloroethane	8,200	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Trichloroethene	1,200	0.0097 U	0.0082 U	0.021	0.0081 U	0.0072 U
Vinyl Chloride	170	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
m,p-Xylene*	410,000	0.0097 U	0.0082 U	0.028	0.0081 U	0.0072 U
o-Xylene*	410,000	0.0097 U	0.0082 U	0.025	0.012	0.0096
Xylenes, Total	410,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-001 1-2	SB01-002 8-10	SP02-001 2-3	SP02-002 3-4	SP03-001 2-3
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Bis(2-chloroethyl)ether	75	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Bis(2-ethylhexyl)phthalate	4,100	0.37 U	0.45	0.37 U	0.38 U	0.49
4-Bromophenyl phenyl ether	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Butyl benzyl phthalate	410,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Carbazole	6,200	0.37 U	0.38 U	0.52	0.47	2.9
4-Chloro-3-methylphenol +	41,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4-Chloroaniline	820	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Chloronaphthalene	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Chlorophenol	10,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4-Chlorophenyl phenyl ether	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Dibenzofuran +	820	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,2-Dichlorobenzene	18,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,3-Dichlorobenzene +	180	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,4-Dichlorobenzene	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
3,3´-Dichlorobenzidine	280	0.74 U	0.76 U	0.75 U	0.75 U	0.71 U
2,4-Dichlorophenol	610	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Diethyl phthalate	1,000,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Dimethyl phthalate +	1,000,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Di-n-butyl phthalate	200,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2,4-Dimethylphenol	41,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4,6-Dinitro-2-methylphenol	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
2,4-Dinitrophenol	410	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
2,4-Dinitrotoluene	180	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2,6-Dinitrotoluene	180	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Di-n-octyl phthalate	4,100	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachlorobenzene	78	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachlorobutadiene +	41	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachlorocyclopentadiene	14,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachloroethane	2,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Isophorone	410,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Methylnaphthalene +	820	0.37 U	0.38 U	0.85	0.38 U	0.57
2-Methylphenol	100,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4-Methylphenol +	1,000	0.37 U	0.38 U	0.56	0.38 U	0.36 U
2-Nitroaniline	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
3-Nitroaniline	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
4-Nitroaniline	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
Nitrobenzene	1,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Nitrophenol	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
4-Nitrophenol	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
N-Nitrosodi-n-propylamine	18	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
N-Nitrosodiphenylamine	25,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.016 U	0.016 U	0.015 U
Pentachlorophenol	520	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
Phenol	120,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,2,4-Trichlorobenzene	2,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2,4,5-Trichlorophenol	200,000	0.74 U	0.76 U	0.75 U	0.75 U	0.71 U
2,4,6-Trichlorophenol	11,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-001 1-2	SB01-002 8-10	SP02-001 2-3	SP02-002 3-4	SP03-001 2-3
PAHs (mg/kg)						
Acenaphthene	120,000	0.037	0.029 U	0.45	0.19	0.69
Acenaphthylene +	61,000	0.032	0.029 U	1.2	0.13	0.32
Anthracene	610,000	0.27	0.16	1.5	0.3	0.75
Benzo(a)anthracene	170	0.34	0.34	3.5	0.43	2.5
Benzo(b)fluoranthene	170	0.44	0.32	2.2	0.36	1.8
Benzo(k)fluoranthene	1,700	0.44	0.26	2.7	0.39	1.6
Benzo(g,h,i)perylene +	61,000	0.31	0.23	2	0.48	0.94
Benzo(a)pyrene	17	0.32	0.21	3.1	0.52	2.3
Chrysene	17,000	0.71	0.67	4.1	0.62	2.5
Dibenzo(a,h)anthracene	17	0.16	0.099	0.81	0.13	0.39
Fluoranthene	82,000	1.4	1.1	6.2	0.85	4.1
Fluorene	82,000	0.067	0.029 U	0.63	0.21	0.65
Indeno(1,2,3-cd)pyrene	170	0.31	0.2	2	0.35	0.93
Naphthalene	4,100	0.36	0.044	0.84	0.28	0.75
Phenanthrene +	61,000	0.64	0.35	3.8	1	3.7
Pyrene	61,000	1.5	1.2	8.6	1.1	4.5
PCBs (mg/kg)						
Aroclor 1016	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1221	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1232	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1242	--	0.09 U	0.093 U	0.094	0.09 U	0.4
Aroclor 1248	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1254	--	0.18 U	0.19 U	0.18 U	0.18 U	0.33
Aroclor 1260	--	0.18 U	0.19 U	0.18 U	0.18 U	0.16 U
Total PCBs	1	0.810 U	0.845 U	0.814	0.810 U	1.226
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	0.97 UJ	1 UJ	1 UJ	1 UJ	1.1 UJ
Arsenic	61	8.1	9.2 J	6.5	2.5 J	7.2
Barium	14,000	61 J	47 J	82 J	19 J	68 J
Beryllium	410	0.75	0.87	1.1	0.63	1
Cadmium	200	0.91	0.54	0.79	0.52 U	1.1
Chromium	4,100	14 J	20 J	15 J	6.9 J	20 J
Copper	8,200	66 J	32 J	43 J	8.9 J	110 J
Lead	400	380 J	41	130 J	31	150 J
Mercury	61	0.35	0.28	0.15	0.035	0.076
Nickel	4,100	17 J	33 J	20 J	5.5 J	23 J
Selenium	1,000	0.97 U	1 U	1 U	1 U	1.1 U
Silver	1,000	0.97 U	1 U	1 U	1 U	1.1 U
Thallium	160	0.97 U	4.2	1	1 U	1.1 U
Zinc	61,000	160 J	70 J	90 J	23 J	290 J
Total Cyanide	4,100	0.31 U	0.27 U	0.26 U	0.26 U	0.23 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) Shaded value exceeds Tier 1 screening level.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP03-002 4-5	SB04-001 5-7	SP05-001 2-3	SP05-002 9-10	SP06-001 2-3
TCL Volatiles (mg/kg)						
Acetone	200,000	0.32	0.061 U	0.067	0.061	0.073
Benzene	2,300	0.017 U	0.012 U	0.015	0.012 U	0.079
Bromodichloromethane	2,000	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Bromoform	16,000	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Bromomethane	1,000	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
2-Butanone	--	0.072	0.025 U	0.024 U	0.023 U	0.025 U
Carbon Disulfide	20,000	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Carbon Tetrachloride	410	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Chlorobenzene	4,100	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Chloroethane +	82,000	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
Chloroform	2,000	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Chloromethane +	820	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Dibromochloromethane	41,000	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1-Dichloroethane	200,000	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,2-Dichloroethane	1,400	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1-Dichloroethene	1,800	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
cis-1,2-Dichloroethene	20,000	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
trans-1,2-Dichloroethene	41,000	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,2-Dichloropropane	1,800	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
cis-1,3-Dichloropropene	1,200	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
trans-1,3-Dichloropropene	1,200	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Ethylbenzene	20,000	0.017 U	0.012 U	0.012 U	0.012 U	0.15
2-Hexanone +	8,200	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
4-Methyl-2-Pentanone	--	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
Methylene Chloride	12,000	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
Methyl tert-butyl ether	2,000	NA	NA	NA	NA	NA
Styrene	41,000	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1,2,2-Tetrachloroethane +	12,000	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Tetrachloroethene	2,400	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Toluene	410,000	0.017 U	0.012 U	0.012 U	0.012 U	0.041
1,1,1-Trichloroethane	--	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1,2-Trichloroethane	8,200	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Trichloroethene	1,200	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Vinyl Chloride	170	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
m,p-Xylene*	410,000	0.017 U	0.012 U	0.012 U	0.012 U	0.11
o-Xylene*	410,000	0.017 U	0.012 U	0.012 U	0.012 U	0.12
Xylenes, Total	410,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP03-002 4-5	SB04-001 5-7	SP05-001 2-3	SP05-002 9-10	SP06-001 2-3
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Bis(2-chloroethyl)ether	75	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Bis(2-ethylhexyl)phthalate	4,100	0.44 U	1.1	0.38 U	0.39 U	0.38 U
4-Bromophenyl phenyl ether	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Butyl benzyl phthalate	410,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Carbazole	6,200	0.44 U	0.41 U	0.67	0.39 U	2.2
4-Chloro-3-methylphenol +	41,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4-Chloroaniline	820	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Chloronaphthalene	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Chlorophenol	10,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4-Chlorophenyl phenyl ether	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Dibenzofuran +	820	0.44 U	0.41 U	0.38 U	0.39 U	0.4
1,2-Dichlorobenzene	18,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
1,3-Dichlorobenzene +	180	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
1,4-Dichlorobenzene	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
3,3´-Dichlorobenzidine	280	0.89 U	0.82 U	0.76 U	0.78 U	0.76 U
2,4-Dichlorophenol	610	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Diethyl phthalate	1,000,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Dimethyl phthalate +	1,000,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Di-n-butyl phthalate	200,000	0.44 U	0.45	0.38 U	0.39 U	0.38 U
2,4-Dimethylphenol	41,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4,6-Dinitro-2-methylphenol	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
2,4-Dinitrophenol	410	2.1 U	2 U	1.8 U	1.9 U	1.8 U
2,4-Dinitrotoluene	180	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2,6-Dinitrotoluene	180	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Di-n-octyl phthalate	4,100	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachlorobenzene	78	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachlorobutadiene +	41	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachlorocyclopentadiene	14,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachloroethane	2,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Isophorone	410,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Methylnaphthalene +	820	0.44 U	0.41 U	0.54	0.39 U	2.7
2-Methylphenol	100,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4-Methylphenol +	1,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Nitroaniline	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
3-Nitroaniline	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
4-Nitroaniline	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
Nitrobenzene	1,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Nitrophenol	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
4-Nitrophenol	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
N-Nitrosodi-n-propylamine	18	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
N-Nitrosodiphenylamine	25,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	--	0.019 U	0.017 U	0.016 U	0.017 U	0.016 U
Pentachlorophenol	520	2.1 U	2 U	1.8 U	1.9 U	1.8 U
Phenol	120,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
1,2,4-Trichlorobenzene	2,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2,4,5-Trichlorophenol	200,000	0.89 U	0.82 U	0.76 U	0.78 U	0.76 U
2,4,6-Trichlorophenol	11,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP03-002 4-5	SB04-001 5-7	SP05-001 2-3	SP05-002 9-10	SP06-001 2-3
PAHs (mg/kg)						
Acenaphthene	120,000	0.034 U	0.17	0.84	0.03 U	1.4
Acenaphthylene +	61,000	0.034 U	0.13	1.3	0.03 U	0.59
Anthracene	610,000	0.034 U	0.7	1.1	0.03 U	1.7
Benzo(a)anthracene	170	0.034 U	0.78	3	0.03 U	3.3
Benzo(b)fluoranthene	170	0.034 U	1.1	1.9	0.03 U	2
Benzo(k)fluoranthene	1,700	0.034 U	0.91	2.5	0.03 U	2.4
Benzo(g,h,i)perylene +	61,000	0.034 U	1.2	1.2	0.03 U	1.4
Benzo(a)pyrene	17	0.034 U	0.75	3.3	0.03 U	3.3
Chrysene	17,000	0.034 U	1.7	3.5	0.03 U	4.2
Dibenzo(a,h)anthracene	17	0.034 U	0.41	0.55	0.03 U	0.71
Fluoranthene	82,000	0.034 U	2.4	4.3	0.03 U	7.2
Fluorene	82,000	0.034 U	0.31	0.77	0.03 U	1.5
Indeno(1,2,3-cd)pyrene	170	0.034 U	0.74	1.3	0.03 U	1.6
Naphthalene	4,100	0.034 U	0.15	0.22	0.03 U	4.2
Phenanthrene +	61,000	0.034 U	1.5	2.9	0.03 U	7
Pyrene	61,000	0.034 U	3.4	6.6	0.03 U	6.1
PCBs (mg/kg)						
Aroclor 1016	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1221	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1232	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1242	--	0.1 U	5.8	0.092 U	0.095 U	0.29
Aroclor 1248	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1254	--	0.2 U	3.4	0.19 U	0.19 U	0.29
Aroclor 1260	--	0.2 U	0.19 U	0.19 U	0.19 U	0.18 U
Total PCBs	1	0.900 U	9.774	0.840 U	0.855 U	1.128
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	1.2 UJ	1.4 J	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	61	3.6 J	8.1 J	9	5.8 J	7.3
Barium	14,000	58 J	260 J	78 J	18 J	160 J
Beryllium	410	1.3	0.72	1.1	0.97	0.95
Cadmium	200	0.6 U	3	1.1	0.55 U	1.2
Chromium	4,100	20 J	570 J	14 J	15 J	13 J
Copper	8,200	18 J	220 J	140 J	19 J	35 J
Lead	400	17	280	160 J	13	450 J
Mercury	61	0.031 U	0.31	0.32	0.027 U	0.22
Nickel	4,100	24 J	76 J	20 J	23 J	17 J
Selenium	1,000	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U
Silver	1,000	1.2 U	1.3	1.1 U	1.1 U	1.1 U
Thallium	160	1.2	1.2 U	1.1 U	1.5	1.1 U
Zinc	61,000	63 J	780 J	240 J	37 J	320 J
Total Cyanide	4,100	0.31 U	0.33 U	0.27 U	0.31 U	0.25 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) PCBs - Polychlorinated Biphenyls.

(6) Shaded value exceeds Tier 1 screening level.

(7) J - Indicates an estimated value.

(8) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).

(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP06-002 3-4	SP06-003 8-10	SP07-001 1-2	SP07-002 9-10	SP07-003 16-17
TCL Volatiles (mg/kg)						
Acetone	200,000	0.16	0.092 U	0.06 U	0.068 U	0.046 U
Benzene	2,300	0.78	0.056	0.012 U	0.014 U	0.0093 U
Bromodichloromethane	2,000	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Bromoform	16,000	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Bromomethane	1,000	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
2-Butanone	--	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Carbon Disulfide	20,000	0.025 U	0.018 U	0.04	0.014 U	0.0093 U
Carbon Tetrachloride	410	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Chlorobenzene	4,100	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Chloroethane +	82,000	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Chloroform	2,000	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Chloromethane +	820	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Dibromochloromethane	41,000	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1-Dichloroethane	200,000	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,2-Dichloroethane	1,400	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1-Dichloroethene	1,800	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
cis-1,2-Dichloroethene	20,000	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
trans-1,2-Dichloroethene	41,000	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,2-Dichloropropane	1,800	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
cis-1,3-Dichloropropene	1,200	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
trans-1,3-Dichloropropene	1,200	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Ethylbenzene	20,000	3	0.38	0.013	0.014 U	0.0093 U
2-Hexanone +	8,200	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
4-Methyl-2-Pentanone	--	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Methylene Chloride	12,000	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Methyl tert-butyl ether	2,000	NA	NA	NA	NA	NA
Styrene	41,000	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1,2,2-Tetrachloroethane +	12,000	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Tetrachloroethene	2,400	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Toluene	410,000	0.79	0.044	0.012	0.014 U	0.0093 U
1,1,1-Trichloroethane	--	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1,2-Trichloroethane	8,200	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Trichloroethene	1,200	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Vinyl Chloride	170	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
m,p-Xylene*	410,000	3	0.098	0.016	0.014 U	0.0093 U
o-Xylene*	410,000	2	0.17	0.012 U	0.014 U	0.0093 U
Xylenes, Total	410,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP06-002 3-4	SP06-003 8-10	SP07-001 1-2	SP07-002 9-10	SP07-003 16-17
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Bis(2-chloroethyl)ether	75	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Bis(2-ethylhexyl)phthalate	4,100	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Bromophenyl phenyl ether	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Butyl benzyl phthalate	410,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Carbazole	6,200	0.39 U	1.4	0.47	0.38 U	0.39 U
4-Chloro-3-methylphenol +	41,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Chloroaniline	820	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Chloronaphthalene	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Chlorophenol	10,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Dibenzofuran +	820	1.3	1.6	0.37 U	0.38 U	0.39 U
1,2-Dichlorobenzene	18,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
1,3-Dichlorobenzene +	180	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
1,4-Dichlorobenzene	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
3,3´-Dichlorobenzidine	280	0.78 U	2.2 U	0.74 U	0.76 U	0.79 U
2,4-Dichlorophenol	610	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Diethyl phthalate	1,000,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Dimethyl phthalate +	1,000,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Di-n-butyl phthalate	200,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2,4-Dimethylphenol	41,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
2,4-Dinitrophenol	410	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
2,4-Dinitrotoluene	180	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2,6-Dinitrotoluene	180	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Di-n-octyl phthalate	4,100	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachlorobenzene	78	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachlorobutadiene +	41	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachlorocyclopentadiene	14,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachloroethane	2,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Isophorone	410,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Methylnaphthalene +	820	20	17	0.4	0.38 U	0.39 U
2-Methylphenol	100,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Methylphenol +	1,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Nitroaniline	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
3-Nitroaniline	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
4-Nitroaniline	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
Nitrobenzene	1,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Nitrophenol	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
4-Nitrophenol	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	18	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
N-Nitrosodiphenylamine	25,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.046 U	0.016 U	0.016 U	0.017 U
Pentachlorophenol	520	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
Phenol	120,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
1,2,4-Trichlorobenzene	2,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2,4,5-Trichlorophenol	200,000	0.78 U	2.2 U	0.74 U	0.76 U	0.79 U
2,4,6-Trichlorophenol	11,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP06-002 3-4	SP06-003 8-10	SP07-001 1-2	SP07-002 9-10	SP07-003 16-17
PAHs (mg/kg)						
Acenaphthene	120,000	10	4.5	0.28 U	0.029 U	0.03 U
Acenaphthylene +	61,000	2	4.2	0.39	0.029 U	0.03 U
Anthracene	610,000	9.6	4.9	0.54	0.029 U	0.03 U
Benzo(a)anthracene	170	3.9	4.2	1.5	0.029 U	0.03 U
Benzo(b)fluoranthene	170	1.1	1.3	1.3	0.029 U	0.03 U
Benzo(k)fluoranthene	1,700	0.89	1.1	0.98	0.029 U	0.03 U
Benzo(g,h,i)perylene +	61,000	1.2	0.82 U	0.77	0.029 U	0.03 U
Benzo(a)pyrene	17	2.7	0.97	1.6	0.029 U	0.03 U
Chrysene	17,000	5.1	4.3	1.6	0.029 U	0.03 U
Dibenzo(a,h)anthracene	17	0.52	0.82 U	0.28 U	0.029 U	0.03 U
Fluoranthene	82,000	9.1	6.8	2.5	0.029 U	0.03 U
Fluorene	82,000	10	6.5	0.28 U	0.029 U	0.03 U
Indeno(1,2,3-cd)pyrene	170	1.2	0.82 U	0.71	0.029 U	0.03 U
Naphthalene	4,100	27	13	0.28	0.029 U	0.03 U
Phenanthrene +	61,000	34	21	2.1	0.029 U	0.03 U
Pyrene	61,000	15	10	2.8	0.029 U	0.03 U
PCBs (mg/kg)						
Aroclor 1016	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1221	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1232	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1242	--	0.094 U	0.09 U	1.5	0.09 U	0.096 U
Aroclor 1248	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1254	--	0.19 U	0.18 U	0.91 U	0.18 U	0.19 U
Aroclor 1260	--	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U
Total PCBs	1	0.850 U	0.810 U	2.954	0.810 U	0.860 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	1.1 UJ	NA	1 UJ	1.1 UJ	1.1 UJ
Arsenic	61	6.5 J	NA	4.4	7.7 J	8.1 J
Barium	14,000	67 J	NA	370 J	38 J	98 J
Beryllium	410	1	NA	5.7	0.98	1.2
Cadmium	200	0.98	NA	1.4	0.54 U	0.57 U
Chromium	4,100	12 J	NA	120 J	17 J	21 J
Copper	8,200	71 J	NA	400 J	28 J	24 J
Lead	400	190	NA	180 J	55	16
Mercury	61	0.15	NA	0.091	0.029 U	0.032 U
Nickel	4,100	17 J	NA	17 J	33 J	31 J
Selenium	1,000	1.1 U	NA	2.8	1.1 U	1.1 U
Silver	1,000	1.1 U	NA	1 U	1.1 U	1.1 U
Thallium	160	1.1 U	NA	1 U	1.4	2.1
Zinc	61,000	190 J	NA	180 J	69 J	39 J
Total Cyanide	4,100	0.26 U	NA	0.26 U	0.27 U	0.29 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) Shaded value exceeds Tier 1 screening level.
(7) J - Indicates an estimated value.
(8) NA - Not analyzed.
(9) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(10) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP08-001 0-0.5	SP08-002 7-8	SB09-001 3-5	SB10-001 1-2	SP10-002 6-7
TCL Volatiles (mg/kg)						
Acetone	200,000	0.047 U	0.097	0.12	0.062	0.071 U
Benzene	2,300	0.0095 U	0.011 U	0.19	0.0092	3.6
Bromodichloromethane	2,000	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Bromoform	16,000	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Bromomethane	1,000	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
2-Butanone	--	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Carbon Disulfide	20,000	0.0095 U	0.011 U	0.013	0.0074 U	0.014 U
Carbon Tetrachloride	410	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Chlorobenzene	4,100	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Chloroethane +	82,000	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Chloroform	2,000	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Chloromethane +	820	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Dibromochloromethane	41,000	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1-Dichloroethane	200,000	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,2-Dichloroethane	1,400	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1-Dichloroethene	1,800	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
cis-1,2-Dichloroethene	20,000	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
trans-1,2-Dichloroethene	41,000	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,2-Dichloropropane	1,800	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
cis-1,3-Dichloropropene	1,200	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
trans-1,3-Dichloropropene	1,200	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Ethylbenzene	20,000	0.0095 U	0.011 U	0.07	0.014	8.2
2-Hexanone +	8,200	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
4-Methyl-2-Pentanone	--	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Methylene Chloride	12,000	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Methyl tert-butyl ether	2,000	NA	NA	NA	NA	NA
Styrene	41,000	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1,2,2-Tetrachloroethane +	12,000	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Tetrachloroethene	2,400	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Toluene	410,000	0.0095 U	0.011 U	0.011 U	0.0087	0.014 U
1,1,1-Trichloroethane	--	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1,2-Trichloroethane	8,200	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Trichloroethene	1,200	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Vinyl Chloride	170	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
m,p-Xylene*	410,000	0.0095 U	0.011 U	0.013	0.021	5
o-Xylene*	410,000	0.0095 U	0.011 U	0.087	0.014	1.4
Xylenes, Total	410,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP08-001 0-0.5	SP08-002 7-8	SB09-001 3-5	SB10-001 1-2	SP10-002 6-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Bis(2-chloroethyl)ether	75	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Bis(2-ethylhexyl)phthalate	4,100	2.9	0.4 U	0.75	2.1	0.39 U
4-Bromophenyl phenyl ether	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Butyl benzyl phthalate	410,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Carbazole	6,200	0.41 U	0.4 U	3.7	1.1	0.39 U
4-Chloro-3-methylphenol +	41,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4-Chloroaniline	820	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Chloronaphthalene	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Chlorophenol	10,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Dibenzofuran +	820	0.41 U	0.4 U	0.65	2	1.2
1,2-Dichlorobenzene	18,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
1,3-Dichlorobenzene +	180	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
1,4-Dichlorobenzene	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
3,3´-Dichlorobenzidine	280	0.81 U	0.8 U	0.75 U	0.72 U	0.77 U
2,4-Dichlorophenol	610	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Diethyl phthalate	1,000,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Dimethyl phthalate +	1,000,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Di-n-butyl phthalate	200,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2,4-Dimethylphenol	41,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4,6-Dinitro-2-methylphenol	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrophenol	410	2 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene	180	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2,6-Dinitrotoluene	180	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Di-n-octyl phthalate	4,100	0.71	0.4 U	0.37 U	0.36 U	0.39 U
Hexachlorobenzene	78	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Hexachlorobutadiene +	41	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Hexachlorocyclopentadiene	14,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Hexachloroethane	2,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Isophorone	410,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Methylnaphthalene +	820	0.41 U	0.4 U	0.37 U	27	23
2-Methylphenol	100,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4-Methylphenol +	1,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Nitroaniline	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
3-Nitroaniline	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
4-Nitroaniline	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
Nitrobenzene	1,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Nitrophenol	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
4-Nitrophenol	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
N-Nitrosodi-n-propylamine	18	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
N-Nitrosodiphenylamine	25,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.017 U	0.016 U	0.015 U	0.016 U
Pentachlorophenol	520	2 U	1.9 U	1.8 U	1.8 U	1.9 U
Phenol	120,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
1,2,4-Trichlorobenzene	2,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2,4,5-Trichlorophenol	200,000	0.81 U	0.8 U	0.75 U	0.72 U	0.77 U
2,4,6-Trichlorophenol	11,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP08-001 0-0.5	SP08-002 7-8	SB09-001 3-5	SB10-001 1-2	SP10-002 6-7
PAHs (mg/kg)						
Acenaphthene	120,000	0.031 U	0.003 U	0.51	2.4	8.6
Acenaphthylene +	61,000	0.28	0.0052	0.36	1.9	5.1
Anthracene	610,000	0.4	0.011	2.3	7.1	8.6
Benzo(a)anthracene	170	1.4	0.029	3.3	1.6	1.7
Benzo(b)fluoranthene	170	1.2	0.035	2.3	3.5	2.5
Benzo(k)fluoranthene	1,700	0.9	0.027	2.3	3.4	1.7
Benzo(g,h,i)perylene +	61,000	0.9	0.015	0.74	3.6	1.6
Benzo(a)pyrene	17	1.7	0.031	1.6	3.9	2.2
Chrysene	17,000	1.5	0.035	3.8	9	11
Dibenzo(a,h)anthracene	17	0.33	0.006	0.31	1.2	0.59
Fluoranthene	82,000	1.7	0.043	5.3	11	6.8
Fluorene	82,000	0.078	0.0052	0.92	6.9	6.7
Indeno(1,2,3-cd)pyrene	170	0.83	0.014	0.69	2.6	1.1
Naphthalene	4,100	0.041	0.004	0.52	10	18
Phenanthrene +	61,000	1	0.032	5.2	24	26
Pyrene	61,000	2.1	0.056	5.1	14	14
PCBs (mg/kg)						
Aroclor 1016	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1221	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1232	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1242	--	0.37	0.098 U	0.39	3.9	0.094 U
Aroclor 1248	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1254	--	0.28	0.2 U	0.41	3.3	0.19 U
Aroclor 1260	--	0.2 U	0.2 U	0.18 U	0.18 U	0.19 U
Total PCBs	1	1.246	0.890 U	1.332	7.740	0.850 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	1.2 UJ	1.1 UJ	1 UJ	1.1 J	1.1 UJ
Arsenic	61	7.2	2.8 J	7.8 J	7.2	13 J
Barium	14,000	76 J	31 J	140 J	140 J	80 J
Beryllium	410	1.1	1.1	0.6	0.84	1.1
Cadmium	200	0.75	0.54 U	1.1	1.9	0.55 U
Chromium	4,100	15 J	18 J	98 J	26 J	18 J
Copper	8,200	50 J	22 J	68 J	120 J	32 J
Lead	400	200 J	18	340	260 J	25
Mercury	61	1.4	0.033	0.21	0.3	0.027 U
Nickel	4,100	19 J	24 J	38 J	25 J	35 J
Selenium	1,000	1.2 U	1.1 U	1 U	0.9 U	1.1 U
Silver	1,000	1.2 U	1.1 U	1 U	0.9 U	1.1 U
Thallium	160	1.2 U	1.5	1 U	1.3	2
Zinc	61,000	170 J	42 J	240 J	830 J	53 J
Total Cyanide	4,100	0.33 U	0.3 U	0.29 U	0.36	0.31 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) Shaded value exceeds Tier 1 screening level.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP10-003 13-14	SP11-001 0-0.5	SP11-002 9-10	SP13-001 1-2	SP13-002 6-7
TCL Volatiles (mg/kg)						
Acetone	200,000	0.053 U	0.057 U	0.078	0.062	0.12
Benzene	2,300	0.92	0.011 U	0.013 U	0.012 U	0.012 U
Bromodichloromethane	2,000	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Bromoform	16,000	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Bromomethane	1,000	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
2-Butanone	--	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Carbon Disulfide	20,000	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Carbon Tetrachloride	410	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Chlorobenzene	4,100	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Chloroethane +	82,000	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Chloroform	2,000	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Chloromethane +	820	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Dibromochloromethane	41,000	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1-Dichloroethane	200,000	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,2-Dichloroethane	1,400	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1-Dichloroethene	1,800	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
cis-1,2-Dichloroethene	20,000	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
trans-1,2-Dichloroethene	41,000	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,2-Dichloropropane	1,800	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
cis-1,3-Dichloropropene	1,200	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
trans-1,3-Dichloropropene	1,200	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Ethylbenzene	20,000	9	0.011 U	0.013 U	0.012 U	0.012 U
2-Hexanone +	8,200	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
4-Methyl-2-Pentanone	--	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Methylene Chloride	12,000	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Methyl tert-butyl ether	2,000	NA	NA	NA	NA	NA
Styrene	41,000	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1,2,2-Tetrachloroethane +	12,000	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Tetrachloroethene	2,400	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Toluene	410,000	0.6	0.011 U	0.013 U	0.012 U	0.012 U
1,1,1-Trichloroethane	--	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1,2-Trichloroethane	8,200	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Trichloroethene	1,200	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Vinyl Chloride	170	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
m,p-Xylene*	410,000	3.8	0.011 U	0.013 U	0.012 U	0.012 U
o-Xylene*	410,000	12	0.011 U	0.013 U	0.012 U	0.012 U
Xylenes, Total	410,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP10-003 13-14	SP11-001 0-0.5	SP11-002 9-10	SP13-001 1-2	SP13-002 6-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Bis(2-chloroethyl)ether	75	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Bis(2-ethylhexyl)phthalate	4,100	0.38 U	1.1	0.38 U	0.36 U	0.4 U
4-Bromophenyl phenyl ether	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Butyl benzyl phthalate	410,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Carbazole	6,200	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Chloro-3-methylphenol +	41,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Chloroaniline	820	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Chloronaphthalene	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Chlorophenol	10,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Chlorophenyl phenyl ether	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Dibenzofuran +	820	0.75	0.38 U	0.38 U	0.36 U	0.4 U
1,2-Dichlorobenzene	18,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
1,3-Dichlorobenzene +	180	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
1,4-Dichlorobenzene	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
3,3´-Dichlorobenzidine	280	0.77 U	0.76 U	0.77 U	0.73 U	0.8 U
2,4-Dichlorophenol	610	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Diethyl phthalate	1,000,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Dimethyl phthalate +	1,000,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Di-n-butyl phthalate	200,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2,4-Dimethylphenol	41,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrophenol	410	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrotoluene	180	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2,6-Dinitrotoluene	180	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Di-n-octyl phthalate	4,100	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachlorobenzene	78	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachlorobutadiene +	41	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachlorocyclopentadiene	14,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachloroethane	2,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Isophorone	410,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Methylnaphthalene +	820	20	1.1	0.42	0.86	0.53
2-Methylphenol	100,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Methylphenol +	1,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Nitroaniline	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
3-Nitroaniline	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
4-Nitroaniline	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
Nitrobenzene	1,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Nitrophenol	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
4-Nitrophenol	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
N-Nitrosodi-n-propylamine	18	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
N-Nitrosodiphenylamine	25,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.016 U	0.015 U	0.017 U
Pentachlorophenol	520	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
Phenol	120,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
1,2,4-Trichlorobenzene	2,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2,4,5-Trichlorophenol	200,000	0.77 U	0.76 U	0.77 U	0.73 U	0.8 U
2,4,6-Trichlorophenol	11,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP10-003 13-14	SP11-001 0-0.5	SP11-002 9-10	SP13-001 1-2	SP13-002 6-7
PAHs (mg/kg)						
Acenaphthene	120,000	5.5	1.1	0.046	0.16	0.056
Acenaphthylene +	61,000	3.7	0.86	0.029 U	0.069	0.03 U
Anthracene	610,000	3.1	2.5	0.029 U	0.13	0.03 U
Benzo(a)anthracene	170	0.37	0.9	0.029 U	0.037	0.03 U
Benzo(b)fluoranthene	170	0.42	1.7	0.029 U	0.13	0.03 U
Benzo(k)fluoranthene	1,700	0.49	1.6	0.029 U	0.11	0.03 U
Benzo(g,h,i)perylene +	61,000	0.51	0.62	0.029 U	0.2	0.03 U
Benzo(a)pyrene	17	0.45	1.8	0.029 U	0.094	0.03 U
Chrysene	17,000	2.2	3.1	0.032	0.26	0.03 U
Dibenzo(a,h)anthracene	17	0.13	0.3	0.029 U	0.084	0.03 U
Fluoranthene	82,000	1.8	3.7	0.037	0.21	0.03 U
Fluorene	82,000	3.8	1.3	0.029 U	0.15	0.03 U
Indeno(1,2,3-cd)pyrene	170	0.26	0.44	0.029 U	0.14	0.03 U
Naphthalene	4,100	27	1.5	0.73	0.83	0.99
Phenanthrene +	61,000	9.3	6.5	0.092	0.34	0.04
Pyrene	61,000	3	7.8	0.063	0.28	0.03 U
PCBs (mg/kg)						
Aroclor 1016	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1221	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1232	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1242	--	0.09 U	0.49	0.094 U	0.98	0.097 U
Aroclor 1248	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1254	--	0.18 U	0.45	0.19 U	0.9 U	0.19 U
Aroclor 1260	--	0.18 U	0.18 U	0.19 U	0.18 U	0.19 U
Total PCBs	1	0.810 U	1.488	0.850 U	2.420	0.865 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	1.1 UJ	1.1 UJ	1.1 UJ	1 J	1.1 UJ
Arsenic	61	7.5 J	5.4	11 J	7.3	9.4 J
Barium	14,000	83 J	120 J	100 J	86 J	86 J
Beryllium	410	1.1	1.1	1.1	0.79	1.2
Cadmium	200	0.55 U	1.2	0.56 U	0.7	0.57 U
Chromium	4,100	19 J	16 J	20 J	14 J	20 J
Copper	8,200	31 J	90 J	32 J	40 J	34 J
Lead	400	18	140 J	19	250 J	20
Mercury	61	0.028	0.1	0.028 U	2.9	0.03
Nickel	4,100	39 J	26 J	37 J	19 J	34 J
Selenium	1,000	1.1 U	1.1 U	1.1 U	1 U	1.1 U
Silver	1,000	1.1 U	1.1 U	1.1 U	1 U	1.1 U
Thallium	160	2.5	1.5	2	1.5	2
Zinc	61,000	49 J	220 J	47 J	94 J	45 J
Total Cyanide	4,100	0.25 U	0.89	0.27 U	0.26 U	0.3 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) Shaded value exceeds Tier 1 screening level.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-003 15-16	SB14-001 1-2	SB14-002 6-8	SB15-001 0-0.5	SB15-002 6-8
TCL Volatiles (mg/kg)						
Acetone	200,000	0.055 U	0.051 U	0.078	0.037 U	0.051 U
Benzene	2,300	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Bromodichloromethane	2,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Bromoform	16,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Bromomethane	1,000	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
2-Butanone	--	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Carbon Disulfide	20,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.018
Carbon Tetrachloride	410	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Chlorobenzene	4,100	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Chloroethane +	82,000	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Chloroform	2,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Chloromethane +	820	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Dibromochloromethane	41,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1-Dichloroethane	200,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,2-Dichloroethane	1,400	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1-Dichloroethene	1,800	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
cis-1,2-Dichloroethene	20,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
trans-1,2-Dichloroethene	41,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,2-Dichloropropane	1,800	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
cis-1,3-Dichloropropene	1,200	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
trans-1,3-Dichloropropene	1,200	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Ethylbenzene	20,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
2-Hexanone +	8,200	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
4-Methyl-2-Pentanone	--	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Methylene Chloride	12,000	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Methyl tert-butyl ether	2,000	NA	NA	NA	NA	NA
Styrene	41,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1,2,2-Tetrachloroethane +	12,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Tetrachloroethene	2,400	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Toluene	410,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1,1-Trichloroethane	--	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1,2-Trichloroethane	8,200	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Trichloroethene	1,200	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Vinyl Chloride	170	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
m,p-Xylene*	410,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
o-Xylene*	410,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Xylenes, Total	410,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-003 15-16	SB14-001 1-2	SB14-002 6-8	SB15-001 0-0.5	SB15-002 6-8
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Bis(2-chloroethyl)ether	75	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Bis(2-ethylhexyl)phthalate	4,100	0.39 U	0.49	0.42 U	0.58	0.39 U
4-Bromophenyl phenyl ether	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Butyl benzyl phthalate	410,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Carbazole	6,200	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Chloro-3-methylphenol +	41,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Chloroaniline	820	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Chloronaphthalene	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Chlorophenol	10,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Dibenzofuran +	820	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,2-Dichlorobenzene	18,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,3-Dichlorobenzene +	180	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,4-Dichlorobenzene	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
3,3´-Dichlorobenzidine	280	0.78 U	0.71 U	0.84 U	0.81 U	0.78 U
2,4-Dichlorophenol	610	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Diethyl phthalate	1,000,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Dimethyl phthalate +	1,000,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Di-n-butyl phthalate	200,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2,4-Dimethylphenol	41,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.7 U	2 U	2 U	1.9 U
2,4-Dinitrophenol	410	1.9 U	1.7 U	2 U	2 U	1.9 U
2,4-Dinitrotoluene	180	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2,6-Dinitrotoluene	180	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Di-n-octyl phthalate	4,100	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachlorobenzene	78	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachlorobutadiene +	41	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachlorocyclopentadiene	14,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachloroethane	2,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Isophorone	410,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Methylnaphthalene +	820	0.79	0.35 U	0.42 U	0.4 U	0.39 U
2-Methylphenol	100,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Methylphenol +	1,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Nitroaniline	--	1.9 U	1.7 U	2 U	2 U	1.9 U
3-Nitroaniline	--	1.9 U	1.7 U	2 U	2 U	1.9 U
4-Nitroaniline	--	1.9 U	1.7 U	2 U	2 U	1.9 U
Nitrobenzene	1,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Nitrophenol	--	1.9 U	1.7 U	2 U	2 U	1.9 U
4-Nitrophenol	--	1.9 U	1.7 U	2 U	2 U	1.9 U
N-Nitrosodi-n-propylamine	18	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
N-Nitrosodiphenylamine	25,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.015 U	0.018 U	0.017 U	0.017 U
Pentachlorophenol	520	1.9 U	1.7 U	2 U	2 U	1.9 U
Phenol	120,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,2,4-Trichlorobenzene	2,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2,4,5-Trichlorophenol	200,000	0.78 U	0.71 U	0.84 U	0.81 U	0.78 U
2,4,6-Trichlorophenol	11,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-003 15-16	SB14-001 1-2	SB14-002 6-8	SB15-001 0-0.5	SB15-002 6-8
PAHs (mg/kg)						
Acenaphthene	120,000	0.077	0.15	0.032 U	0.031 U	0.03 U
Acenaphthylene +	61,000	0.03 U	0.18	0.032 U	0.13	0.03 U
Anthracene	610,000	0.03 U	0.25	0.032 U	0.031 U	0.03 U
Benzo(a)anthracene	170	0.03 U	3.5	0.032 U	0.15	0.03 U
Benzo(b)fluoranthene	170	0.03 U	1.8	0.032 U	0.13	0.03 U
Benzo(k)fluoranthene	1,700	0.03 U	1.6	0.032 U	0.13	0.03 U
Benzo(g,h,i)perylene +	61,000	0.03 U	0.66	0.032 U	0.17	0.03 U
Benzo(a)pyrene	17	0.03 U	3	0.032 U	0.2	0.03 U
Chrysene	17,000	0.03 U	3.2	0.032 U	0.21	0.03 U
Dibenzo(a,h)anthracene	17	0.03 U	0.35	0.032 U	0.057	0.03 U
Fluoranthene	82,000	0.03 U	4.2	0.035	0.24	0.087
Fluorene	82,000	0.036	0.15	0.032 U	0.031 U	0.03 U
Indeno(1,2,3-cd)pyrene	170	0.03 U	0.67	0.032 U	0.14	0.03 U
Naphthalene	4,100	1.1	0.19	0.11	0.031 U	0.051
Phenanthrene +	61,000	0.063	0.3	0.071	0.17	0.083
Pyrene	61,000	0.03 U	11	0.056	0.33	0.13
PCBs (mg/kg)						
Aroclor 1016	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1221	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1232	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1242	--	0.093 U	0.12	0.1 U	0.22	0.096 U
Aroclor 1248	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1254	--	0.19 U	0.17 U	0.2 U	0.2 U	0.19 U
Aroclor 1260	--	0.19 U	0.17 U	0.2 U	0.2 U	0.19 U
Total PCBs	1	0.845 U	0.800	0.900 U	1.004	0.860 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	1 UJ	0.98 UJ	1.1 UJ	1 UJ	1.1 UJ
Arsenic	61	9.6 J	3.3	15 J	9.3	12 J
Barium	14,000	74 J	32 J	31 J	150 J	26 J
Beryllium	410	1	0.61	1.2	0.99	1.1
Cadmium	200	0.66	0.59	0.57 U	2.2	0.57 U
Chromium	4,100	17 J	12 J	19 J	33 J	16 J
Copper	8,200	34 J	18 J	32 J	120 J	18 J
Lead	400	19	85 J	26	340 J	13
Mercury	61	0.061	0.06	0.031 U	0.23	0.027
Nickel	4,100	30 J	10 J	43 J	31 J	27 J
Selenium	1,000	1 U	0.98 U	1.1 U	1 U	1.1 U
Silver	1,000	1 U	0.98 U	1.1 U	1 U	1.1 U
Thallium	160	1.9	0.98 U	1.2	1	1.1
Zinc	61,000	42 J	91 J	47 J	550 J	36 J
Total Cyanide	4,100	0.26 U	0.28 U	0.32 U	0.32 U	0.27 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) Shaded value exceeds Tier 1 screening level.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB15-003 10-12	SP16-001 2-3	SP16-002 9-10	SP16-003 15-16	SB17-001 1-2
TCL Volatiles (mg/kg)						
Acetone	200,000	0.1	0.053 U	0.1	0.062 U	0.06 U
Benzene	2,300	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Bromodichloromethane	2,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Bromoform	16,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Bromomethane	1,000	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
2-Butanone	--	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Carbon Disulfide	20,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Carbon Tetrachloride	410	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Chlorobenzene	4,100	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Chloroethane +	82,000	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Chloroform	2,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Chloromethane +	820	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Dibromochloromethane	41,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1-Dichloroethane	200,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,2-Dichloroethane	1,400	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1-Dichloroethene	1,800	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
cis-1,2-Dichloroethene	20,000	0.011 U	0.053	0.0098 U	0.012 U	0.012 U
trans-1,2-Dichloroethene	41,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,2-Dichloropropane	1,800	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
cis-1,3-Dichloropropene	1,200	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
trans-1,3-Dichloropropene	1,200	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Ethylbenzene	20,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
2-Hexanone +	8,200	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
4-Methyl-2-Pentanone	--	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Methylene Chloride	12,000	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Methyl tert-butyl ether	2,000	NA	NA	NA	NA	NA
Styrene	41,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1,2,2-Tetrachloroethane +	12,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Tetrachloroethene	2,400	0.011 U	0.1	0.0098 U	0.012 U	0.012 U
Toluene	410,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1,1-Trichloroethane	--	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1,2-Trichloroethane	8,200	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Trichloroethene	1,200	0.011 U	0.017	0.0098 U	0.012 U	0.012 U
Vinyl Chloride	170	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
m,p-Xylene*	410,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
o-Xylene*	410,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Xylenes, Total	410,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB15-003 10-12	SP16-001 2-3	SP16-002 9-10	SP16-003 15-16	SB17-001 1-2
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Bis(2-chloroethyl)ether	75	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Bis(2-ethylhexyl)phthalate	4,100	0.42 U	1.6	0.39 U	0.39 U	0.94
4-Bromophenyl phenyl ether	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Butyl benzyl phthalate	410,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Carbazole	6,200	0.42 U	0.75	0.39 U	0.39 U	0.36 U
4-Chloro-3-methylphenol +	41,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4-Chloroaniline	820	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Chloronaphthalene	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Chlorophenol	10,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Dibenzofuran +	820	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,2-Dichlorobenzene	18,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,3-Dichlorobenzene +	180	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,4-Dichlorobenzene	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
3,3´-Dichlorobenzidine	280	0.85 U	0.73 U	0.77 U	0.77 U	0.73 U
2,4-Dichlorophenol	610	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Diethyl phthalate	1,000,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Dimethyl phthalate +	1,000,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Di-n-butyl phthalate	200,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2,4-Dimethylphenol	41,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4,6-Dinitro-2-methylphenol	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
2,4-Dinitrophenol	410	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
2,4-Dinitrotoluene	180	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2,6-Dinitrotoluene	180	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Di-n-octyl phthalate	4,100	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachlorobenzene	78	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachlorobutadiene +	41	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachlorocyclopentadiene	14,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachloroethane	2,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Isophorone	410,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Methylnaphthalene +	820	0.42 U	0.64	0.39 U	0.39 U	0.36 U
2-Methylphenol	100,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4-Methylphenol +	1,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Nitroaniline	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
3-Nitroaniline	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
4-Nitroaniline	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
Nitrobenzene	1,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Nitrophenol	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
4-Nitrophenol	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
N-Nitrosodi-n-propylamine	18	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
N-Nitrosodiphenylamine	25,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2, 2'-Oxybis(1-Chloropropane)	--	0.018 U	0.015 U	0.016 U	0.016 U	0.015 U
Pentachlorophenol	520	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
Phenol	120,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,2,4-Trichlorobenzene	2,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2,4,5-Trichlorophenol	200,000	0.85 U	0.73 U	0.77 U	0.77 U	0.73 U
2,4,6-Trichlorophenol	11,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB15-003 10-12	SP16-001 2-3	SP16-002 9-10	SP16-003 15-16	SB17-001 1-2
PAHs (mg/kg)						
Acenaphthene	120,000	0.032 U	0.5	0.029 U	0.029 U	0.036
Acenaphthylene +	61,000	0.032 U	0.15	0.029 U	0.029 U	0.049
Anthracene	610,000	0.032 U	0.81	0.029 U	0.029 U	0.21
Benzo(a)anthracene	170	0.032 U	0.36	0.029 U	0.029 U	0.089
Benzo(b)fluoranthene	170	0.032 U	0.92	0.029 U	0.029 U	0.15
Benzo(k)fluoranthene	1,700	0.032 U	1.1	0.029 U	0.029 U	0.12
Benzo(g,h,i)perylene +	61,000	0.032 U	0.81	0.029 U	0.029 U	0.034
Benzo(a)pyrene	17	0.032 U	0.75	0.029 U	0.029 U	0.069
Chrysene	17,000	0.032 U	2.3	0.029 U	0.029 U	0.087
Dibenzo(a,h)anthracene	17	0.032 U	0.28	0.029 U	0.029 U	0.028 U
Fluoranthene	82,000	0.032 U	1.8	0.029 U	0.029 U	0.12
Fluorene	82,000	0.032 U	0.44	0.029 U	0.029 U	0.046
Indeno(1,2,3-cd)pyrene	170	0.032 U	0.54	0.029 U	0.029 U	0.034
Naphthalene	4,100	0.032 U	0.64	0.029 U	0.029 U	0.051
Phenanthrene +	61,000	0.032 U	2.2	0.029 U	0.029 U	0.21
Pyrene	61,000	0.032 U	2.7	0.029 U	0.029 U	0.18
PCBs (mg/kg)						
Aroclor 1016	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1221	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1232	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1242	--	0.1 U	4.7	0.094 U	0.095 U	0.15
Aroclor 1248	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1254	--	0.21 U	4.3	0.19 U	0.19 U	0.18 U
Aroclor 1260	--	0.21 U	0.18 U	0.19 U	0.19 U	0.18 U
Total PCBs	1	0.920 U	9.532	0.850 U	0.855 U	0.862
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	1.1 UJ	1.1 J	1 UJ	1.1 UJ	1 UJ
Arsenic	61	5 J	6.7	12 J	9.6 J	1.4
Barium	14,000	22 J	130 J	79 J	84 J	9.4 J
Beryllium	410	1.2	1.3	1.1	1.1	0.54
Cadmium	200	0.57 U	2.3	0.52 U	0.56 U	0.5 U
Chromium	4,100	19 J	47 J	17 J	17 J	5.3 J
Copper	8,200	31 J	170 J	39 J	28 J	4.9 J
Lead	400	16	150 J	21	17	7.3 J
Mercury	61	0.032 U	0.43	0.027 U	0.033	0.04
Nickel	4,100	30 J	40 J	37 J	24 J	3.3 J
Selenium	1,000	1.1 U	1 U	1 U	1.1 U	1 U
Silver	1,000	1.1 U	1 U	1 U	1.1 U	1 U
Thallium	160	2.5	1.4	1.8	1.7	1 U
Zinc	61,000	42 J	600 J	40 J	33 J	55 J
Total Cyanide	4,100	0.28 U	0.26 U	0.25 U	0.28 U	0.28 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) Shaded value exceeds Tier 1 screening level.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB18B-001 1-2	SB19-001 1-2	SB20-001 0-0.5	SB21-001 1-2	SB22-002 8-10
TCL Volatiles (mg/kg)						
Acetone	200,000	0.062 U	0.05	0.12	0.036	0.065
Benzene	2,300	0.012 U	0.039	0.0084 U	0.077	0.0089 U
Bromodichloromethane	2,000	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Bromoform	16,000	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Bromomethane	1,000	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
2-Butanone	--	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Carbon Disulfide	20,000	0.012 U	0.0081 U	0.011	0.0065 U	0.0089 U
Carbon Tetrachloride	410	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Chlorobenzene	4,100	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Chloroethane +	82,000	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Chloroform	2,000	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Chloromethane +	820	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Dibromochloromethane	41,000	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1-Dichloroethane	200,000	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,2-Dichloroethane	1,400	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1-Dichloroethene	1,800	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
cis-1,2-Dichloroethene	20,000	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
trans-1,2-Dichloroethene	41,000	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,2-Dichloropropane	1,800	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
cis-1,3-Dichloropropene	1,200	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
trans-1,3-Dichloropropene	1,200	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Ethylbenzene	20,000	0.012 U	0.22	0.014	0.12	0.0089 U
2-Hexanone +	8,200	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
4-Methyl-2-Pentanone	--	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Methylene Chloride	12,000	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Methyl tert-butyl ether	2,000	NA	NA	NA	NA	NA
Styrene	41,000	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1,2,2-Tetrachloroethane +	12,000	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Tetrachloroethene	2,400	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Toluene	410,000	0.012 U	0.064	0.0097	0.018	0.0089 U
1,1,1-Trichloroethane	--	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1,2-Trichloroethane	8,200	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Trichloroethene	1,200	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Vinyl Chloride	170	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
m,p-Xylene*	410,000	0.012 U	0.2	0.031	0.034	0.0089 U
o-Xylene*	410,000	0.012 U	0.12	0.011	0.036	0.0089 U
Xylenes, Total	410,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB18B-001 1-2	SB19-001 1-2	SB20-001 0-0.5	SB21-001 1-2	SB22-002 8-10
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Bis(2-chloroethyl)ether	75	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Bis(2-ethylhexyl)phthalate	4,100	1.2	0.63	2.7	0.59 J	0.39 U
4-Bromophenyl phenyl ether	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Butyl benzyl phthalate	410,000	0.35 U	0.36 U	0.58	0.38 U	0.39 U
Carbazole	6,200	0.35 U	3.2	0.53	0.91 J	0.39 U
4-Chloro-3-methylphenol +	41,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4-Chloroaniline	820	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Chloronaphthalene	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Chlorophenol	10,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Dibenzofuran +	820	0.35 U	0.94	0.38 U	0.9 J	0.39 U
1,2-Dichlorobenzene	18,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
1,3-Dichlorobenzene +	180	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
1,4-Dichlorobenzene	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
3,3´-Dichlorobenzidine	280	0.7 U	0.72 U	0.75 U	0.75 U	0.78 U
2,4-Dichlorophenol	610	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Diethyl phthalate	1,000,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Dimethyl phthalate +	1,000,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Di-n-butyl phthalate	200,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2,4-Dimethylphenol	41,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrophenol	410	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene	180	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2,6-Dinitrotoluene	180	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Di-n-octyl phthalate	4,100	1.6	0.36 U	0.38 U	0.38 U	0.39 U
Hexachlorobenzene	78	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Hexachlorobutadiene +	41	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Hexachlorocyclopentadiene	14,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Hexachloroethane	2,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Isophorone	410,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Methylnaphthalene +	820	0.47	20	0.59	2.3 J	0.39 U
2-Methylphenol	100,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4-Methylphenol +	1,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Nitroaniline	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
3-Nitroaniline	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
4-Nitroaniline	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
Nitrobenzene	1,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Nitrophenol	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
4-Nitrophenol	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
N-Nitrosodi-n-propylamine	18	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
N-Nitrosodiphenylamine	25,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.015 U	0.015 U	0.016 U	0.38 U	0.39 U
Pentachlorophenol	520	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
Phenol	120,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
1,2,4-Trichlorobenzene	2,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2,4,5-Trichlorophenol	200,000	0.7 U	0.72 U	0.75 U	0.75 U	0.78 U
2,4,6-Trichlorophenol	11,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) J - Indicates an estimated value.
(6) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB18B-001 1-2	SB19-001 1-2	SB20-001 0-0.5	SB21-001 1-2	SB22-002 8-10
PAHs (mg/kg)						
Acenaphthene	120,000	0.19	3.1	0.31	3.3 J	0.031
Acenaphthylene +	61,000	0.12	2.3	0.19	2.5 J	0.029 U
Anthracene	610,000	0.67	3.1	0.78	5 J	0.047
Benzo(a)anthracene	170	0.31	1.4	0.26	1.6 J	0.029 U
Benzo(b)fluoranthene	170	0.57	3.4	2	3.1 J	0.029 U
Benzo(k)fluoranthene	1,700	0.6	3	1.9	3.5 J	0.029 U
Benzo(g,h,i)perylene +	61,000	0.8	3	0.89	3.7 J	0.029 U
Benzo(a)pyrene	17	0.41	2.7	0.67	4 J	0.029 U
Chrysene	17,000	1.7	5.4	1.4	5.6 J	0.04
Dibenzo(a,h)anthracene	17	0.25	1.3	0.3	1.1 J	0.029 U
Fluoranthene	82,000	1.2	7.4	2.4	8.1 J	0.029 U
Fluorene	82,000	0.3	3.2	0.31	3.6 J	0.033
Indeno(1,2,3-cd)pyrene	170	0.52	2.5	0.62	2.5 J	0.029 U
Naphthalene	4,100	0.42	13	0.47	2.4 J	0.2
Phenanthrene +	61,000	1.9	9.7	2.5	13 J	0.13
Pyrene	61,000	1.8	8.9	1.9	14 J	0.029 U
PCBs (mg/kg)						
Aroclor 1016	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1221	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1232	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1242	--	1.9	0.55	1.3	0.1	0.094 U
Aroclor 1248	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1254	--	1.6	0.52	0.91 U	0.18 U	0.19 U
Aroclor 1260	--	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U
Total PCBs	1	4.010	1.588	2.754	0.824	0.850 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	1 J	0.98 J	1 J	0.97 UJ	1.1 UJ
Arsenic	61	4	2.5	4.3	6.9	5.7 J
Barium	14,000	99 J	69 J	150 J	76 J	34 J
Beryllium	410	0.79	0.5	0.87	0.48 U	0.57 U
Cadmium	200	1.1	0.44	1.3	0.89	0.57 U
Chromium	4,100	12 J	9.2 J	15 J	15 J	18 J
Copper	8,200	67 J	33 J	37 J	48 J	26 J
Lead	400	130 J	46 J	94 J	120 J	22
Mercury	61	0.2	0.1	0.53	0.33	0.029
Nickel	4,100	11 J	12 J	14 J	22 J	31 J
Selenium	1,000	0.93 U	0.82 U	1 U	0.97 U	1.1 U
Silver	1,000	0.93 U	0.82 U	1 U	0.97 U	1.1 U
Thallium	160	1.2	1.1	1.5	0.97 U	1.2
Zinc	61,000	240 J	98 J	210 J	150 J	46 J
Total Cyanide	4,100	0.26 U	0.25 U	0.32 U	0.3 U	0.3 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) Shaded value exceeds Tier 1 screening level.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB23-001 1-2	SB24-001 1-2	SB25-001 1-2	SB25-002 3-5	SB25-003 12-14
TCL Volatiles (mg/kg)						
Acetone	200,000	0.056 U	0.056 U	0.12	0.11	0.058 U
Benzene	2,300	0.011 U	0.011 U	1.5	0.22	0.012 U
Bromodichloromethane	2,000	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Bromoform	16,000	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Bromomethane	1,000	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
2-Butanone	--	0.022 U	0.022 U	0.026	0.034 U	0.023 U
Carbon Disulfide	20,000	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Carbon Tetrachloride	410	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Chlorobenzene	4,100	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Chloroethane +	82,000	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
Chloroform	2,000	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Chloromethane +	820	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Dibromochloromethane	41,000	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1-Dichloroethane	200,000	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,2-Dichloroethane	1,400	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1-Dichloroethene	1,800	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
cis-1,2-Dichloroethene	20,000	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
trans-1,2-Dichloroethene	41,000	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,2-Dichloropropane	1,800	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
cis-1,3-Dichloropropene	1,200	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
trans-1,3-Dichloropropene	1,200	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Ethylbenzene	20,000	0.011 U	0.016	2.8	4.6	0.012 U
2-Hexanone +	8,200	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
4-Methyl-2-Pentanone	--	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
Methylene Chloride	12,000	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
Methyl tert-butyl ether	2,000	NA	NA	NA	NA	NA
Styrene	41,000	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1,2,2-Tetrachloroethane +	12,000	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Tetrachloroethene	2,400	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Toluene	410,000	0.011 U	0.011 U	0.03	0.54	0.012 U
1,1,1-Trichloroethane	--	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1,2-Trichloroethane	8,200	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Trichloroethene	1,200	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Vinyl Chloride	170	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
m,p-Xylene*	410,000	0.011 U	0.011 U	0.068	6.7	0.012 U
o-Xylene*	410,000	0.011 U	0.011 U	0.72	6.8	0.012 U
Xylenes, Total	410,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB23-001 1-2	SB24-001 1-2	SB25-001 1-2	SB25-002 3-5	SB25-003 12-14
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Bis(2-chloroethyl)ether	75	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Bis(2-ethylhexyl)phthalate	4,100	2.1	1.7 U	0.36 U	1.2	0.42
4-Bromophenyl phenyl ether	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Butyl benzyl phthalate	410,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Carbazole	6,200	1.8 U	4.1	1.9	5.7	0.4 U
4-Chloro-3-methylphenol +	41,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4-Chloroaniline	820	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Chloronaphthalene	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Chlorophenol	10,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4-Chlorophenyl phenyl ether	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Dibenzofuran +	820	1.8 U	1.7 U	0.84	4.7	0.4 U
1,2-Dichlorobenzene	18,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
1,3-Dichlorobenzene +	180	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
1,4-Dichlorobenzene	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
3,3´-Dichlorobenzidine	280	3.7 U	3.5 U	0.72 U	0.81 U	0.8 U
2,4-Dichlorophenol	610	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Diethyl phthalate	1,000,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Dimethyl phthalate +	1,000,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Di-n-butyl phthalate	200,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2,4-Dimethylphenol	41,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4,6-Dinitro-2-methylphenol	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
2,4-Dinitrophenol	410	8.9 U	8.4 U	1.7 U	2 U	1.9 U
2,4-Dinitrotoluene	180	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2,6-Dinitrotoluene	180	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Di-n-octyl phthalate	4,100	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachlorobenzene	78	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachlorobutadiene +	41	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachlorocyclopentadiene	14,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachloroethane	2,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Isophorone	410,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Methylnaphthalene +	820	1.8 U	1.7 U	4.1	58	0.4
2-Methylphenol	100,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4-Methylphenol +	1,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Nitroaniline	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
3-Nitroaniline	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
4-Nitroaniline	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
Nitrobenzene	1,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Nitrophenol	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
4-Nitrophenol	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
N-Nitrosodi-n-propylamine	18	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
N-Nitrosodiphenylamine	25,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.078 U	0.073 U	0.015 U	0.017 U	0.017 U
Pentachlorophenol	520	8.9 U	8.4 U	1.7 U	2 U	1.9 U
Phenol	120,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
1,2,4-Trichlorobenzene	2,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2,4,5-Trichlorophenol	200,000	3.7 U	3.5 U	0.72 U	0.81 U	0.8 U
2,4,6-Trichlorophenol	11,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB23-001 1-2	SB24-001 1-2	SB25-001 1-2	SB25-002 3-5	SB25-003 12-14
PAHs (mg/kg)						
Acenaphthene	120,000	2.1	0.63	8.3	19	0.03 U
Acenaphthylene +	61,000	5	0.34	6.1	8.9	0.03 U
Anthracene	610,000	4.1	2.1	8.1	16	0.03 U
Benzo(a)anthracene	170	5.9	0.29	8	14	0.03 U
Benzo(b)fluoranthene	170	3.1	1.5	4	7	0.03 U
Benzo(k)fluoranthene	1,700	3.2	1.3	3.3	7	0.03 U
Benzo(g,h,i)perylene +	61,000	1.6	1.5	2.3	3.7	0.03 U
Benzo(a)pyrene	17	5	1.7	5.1	9.2	0.03 U
Chrysene	17,000	6.6	3.6	9.1	15	0.03 U
Dibenzo(a,h)anthracene	17	1.4 U	0.72	0.84	0.94	0.03 U
Fluoranthene	82,000	9.4	6.4	16	20	0.03 U
Fluorene	82,000	2.4	0.67	7	26	0.067
Indeno(1,2,3-cd)pyrene	170	1.4 U	1.4	2.1	3.1 U	0.03 U
Naphthalene	4,100	1.8	0.65	6.7	28	0.6
Phenanthrene +	61,000	10	5.4	30	62	0.15
Pyrene	61,000	14	7	24	32	0.03 U
PCBs (mg/kg)						
Aroclor 1016	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1221	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1232	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1242	--	0.95	1.1	0.086 U	0.098 U	0.096 U
Aroclor 1248	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1254	--	0.72	0.9	0.17 U	0.2 U	0.19 U
Aroclor 1260	--	0.18 U	0.17 U	0.17 U	0.2 U	0.19 U
Total PCBs	1	2.206	2.518	0.770 U	0.890 U	0.860 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	1.1 J	1.1 J	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	61	5	2.5	3.2	7.8 J	11 J
Barium	14,000	98 J	110 J	130 J	92 J	110 J
Beryllium	410	0.76	0.62	0.76	1.3	1.2
Cadmium	200	0.88	1.2	0.59	0.56 U	0.57 U
Chromium	4,100	10 J	13 J	7.8 J	17 J	18 J
Copper	8,200	41 J	60 J	18 J	25 J	26 J
Lead	400	140 J	150 J	61 J	58	17
Mercury	61	0.21	0.2	0.17	0.35	0.03 U
Nickel	4,100	13 J	12 J	6.9 J	29 J	28 J
Selenium	1,000	0.99 U	0.96 U	1.1 U	1.1 U	1.1 U
Silver	1,000	0.99 U	0.96 U	1.1 U	1.1 U	1.1 U
Thallium	160	1.4	1.3	1.4	1.8	1.9
Zinc	61,000	120 J	270 J	73 J	58 J	41 J
Total Cyanide	4,100	0.28 U	0.22 U	0.27 U	0.26 U	0.31 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) Shaded value exceeds Tier 1 screening level.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB27-001 5-7	SB27-002 10-12	SB28-001 2-3	SB28-002 5-7	SB29-001 3-5
TCL Volatiles (mg/kg)						
Acetone	200,000	0.046	0.035 U	0.093	0.048	0.055 U
Benzene	2,300	0.0084 U	0.0069 U	0.041	0.0076 U	0.011 U
Bromodichloromethane	2,000	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Bromoform	16,000	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Bromomethane	1,000	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
2-Butanone	--	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Carbon Disulfide	20,000	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Carbon Tetrachloride	410	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Chlorobenzene	4,100	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Chloroethane +	82,000	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Chloroform	2,000	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Chloromethane +	820	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Dibromochloromethane	41,000	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1-Dichloroethane	200,000	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,2-Dichloroethane	1,400	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1-Dichloroethene	1,800	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
cis-1,2-Dichloroethene	20,000	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
trans-1,2-Dichloroethene	41,000	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,2-Dichloropropane	1,800	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
cis-1,3-Dichloropropene	1,200	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
trans-1,3-Dichloropropene	1,200	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Ethylbenzene	20,000	0.0084 U	0.0069 U	0.059	0.0076 U	0.011 U
2-Hexanone +	8,200	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
4-Methyl-2-Pentanone	--	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Methylene Chloride	12,000	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Methyl tert-butyl ether	2,000	NA	NA	NA	NA	NA
Styrene	41,000	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1,2,2-Tetrachloroethane +	12,000	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Tetrachloroethene	2,400	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Toluene	410,000	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1,1-Trichloroethane	--	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1,2-Trichloroethane	8,200	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Trichloroethene	1,200	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Vinyl Chloride	170	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
m,p-Xylene*	410,000	0.0084 U	0.0069 U	0.012	0.0076 U	0.011 U
o-Xylene*	410,000	0.0084 U	0.0069 U	0.015	0.0076 U	0.011 U
Xylenes, Total	410,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB27-001 5-7	SB27-002 10-12	SB28-001 2-3	SB28-002 5-7	SB29-001 3-5
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Bis(2-chloroethyl)ether	75	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Bis(2-ethylhexyl)phthalate	4,100	0.38 U	0.38 U	0.45	0.4 U	0.39 U
4-Bromophenyl phenyl ether	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Butyl benzyl phthalate	410,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Carbazole	6,200	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Chloro-3-methylphenol +	41,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Chloroaniline	820	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Chloronaphthalene	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Chlorophenol	10,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Dibenzofuran +	820	0.38 U	0.38 U	0.5	0.4 U	0.39 U
1,2-Dichlorobenzene	18,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
1,3-Dichlorobenzene +	180	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
1,4-Dichlorobenzene	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
3,3´-Dichlorobenzidine	280	0.76 U	0.76 U	0.78 U	0.79 U	0.78 U
2,4-Dichlorophenol	610	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Diethyl phthalate	1,000,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Dimethyl phthalate +	1,000,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Di-n-butyl phthalate	200,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2,4-Dimethylphenol	41,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrophenol	410	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	180	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2,6-Dinitrotoluene	180	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Di-n-octyl phthalate	4,100	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachlorobenzene	78	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachlorobutadiene +	41	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachlorocyclopentadiene	14,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachloroethane	2,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Isophorone	410,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Methylnaphthalene +	820	0.38 U	0.38 U	1.1	0.4 U	0.39 U
2-Methylphenol	100,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Methylphenol +	1,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Nitroaniline	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
3-Nitroaniline	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Nitroaniline	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Nitrobenzene	1,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Nitrophenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Nitrophenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	18	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
N-Nitrosodiphenylamine	25,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Pentachlorophenol	520	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	120,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
1,2,4-Trichlorobenzene	2,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2,4,5-Trichlorophenol	200,000	0.76 U	0.76 U	0.78 U	0.79 U	0.78 U
2,4,6-Trichlorophenol	11,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB27-001 5-7	SB27-002 10-12	SB28-001 2-3	SB28-002 5-7	SB29-001 3-5
PAHs (mg/kg)						
Acenaphthene	120,000	0.029 U	0.029 U	1.7	0.03 U	0.035
Acenaphthylene +	61,000	0.029 U	0.029 U	1.4	0.03 U	0.029 U
Anthracene	610,000	0.029 U	0.029 U	3.5	0.03 U	0.038
Benzo(a)anthracene	170	0.029 U	0.029 U	1.1	0.03 U	0.029 U
Benzo(b)fluoranthene	170	0.029 U	0.029 U	1.8	0.03 U	0.029 U
Benzo(k)fluoranthene	1,700	0.029 U	0.029 U	1.9	0.03 U	0.029 U
Benzo(g,h,i)perylene +	61,000	0.029 U	0.029 U	3	0.03 U	0.029 U
Benzo(a)pyrene	17	0.029 U	0.029 U	2.6	0.03 U	0.029 U
Chrysene	17,000	0.029 U	0.029 U	3.8	0.03 U	0.052
Dibenzo(a,h)anthracene	17	0.029 U	0.029 U	0.89	0.03 U	0.029 U
Fluoranthene	82,000	0.029 U	0.029 U	0.051	0.03 U	0.029
Fluorene	82,000	0.029 U	0.029 U	1.1	0.03 U	0.033
Indeno(1,2,3-cd)pyrene	170	0.029 U	0.029 U	1.9	0.03 U	0.029 U
Naphthalene	4,100	0.029 U	0.029 U	1.4	0.03 U	0.094
Phenanthrene +	61,000	0.031	0.047	0.038	0.03 U	0.14
Pyrene	61,000	0.029 U	0.029 U	0.097	0.03 U	0.044
PCBs (mg/kg)						
Aroclor 1016	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1221	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1232	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1242	--	0.094 U	0.093 U	0.34	0.14	0.094 U
Aroclor 1248	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1254	--	0.19 U	0.19 U	0.2	0.19 U	0.19 U
Aroclor 1260	--	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Total PCBs	1	0.850 U	0.845 U	1.102	0.904	0.850 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	61	7.1 J	7 J	6.1	9.2 J	11 J
Barium	14,000	32 J	39 J	67 J	41 J	41 J
Beryllium	410	0.53 U	0.55 U	0.55 U	0.57 U	0.57 U
Cadmium	200	0.53 U	0.55 U	0.71	0.57 U	0.57 U
Chromium	4,100	16 J	17 J	14 J	18 J	18 J
Copper	8,200	39 J	29 J	42 J	27 J	30 J
Lead	400	20	19	120 J	31	23
Mercury	61	0.028 U	0.028 U	0.53	0.049	0.031
Nickel	4,100	31 J	30 J	20 J	33 J	38 J
Selenium	1,000	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Silver	1,000	12	1.1 U	1.1 U	1.1 U	1.1 U
Thallium	160	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Zinc	61,000	50 J	42 J	150 J	61 J	46 J
Total Cyanide	4,100	0.28 U	0.27 U	0.29 U	0.3 U	0.28 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) Shaded value exceeds Tier 1 screening level.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB29-002 12-14	SB31-001 2-3	SB31-002 6-8	SB32-001 2-3	SB32-002 3-5
TCL Volatiles (mg/kg)						
Acetone	200,000	0.067 U	0.03	0.064 U	0.067 U	0.081 U
Benzene	2,300	0.013 U	0.024	0.013 U	5.2	0.77
Bromodichloromethane	2,000	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Bromoform	16,000	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Bromomethane	1,000	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
2-Butanone	--	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Carbon Disulfide	20,000	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Carbon Tetrachloride	410	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Chlorobenzene	4,100	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Chloroethane +	82,000	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Chloroform	2,000	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Chloromethane +	820	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Dibromochloromethane	41,000	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1-Dichloroethane	200,000	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,2-Dichloroethane	1,400	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1-Dichloroethene	1,800	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
cis-1,2-Dichloroethene	20,000	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
trans-1,2-Dichloroethene	41,000	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,2-Dichloropropane	1,800	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
cis-1,3-Dichloropropene	1,200	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
trans-1,3-Dichloropropene	1,200	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Ethylbenzene	20,000	0.013 U	0.038	0.013 U	1.5	2
2-Hexanone +	8,200	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
4-Methyl-2-Pentanone	--	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Methylene Chloride	12,000	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Methyl tert-butyl ether	2,000	NA	NA	NA	NA	NA
Styrene	41,000	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1,2,2-Tetrachloroethane +	12,000	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Tetrachloroethene	2,400	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Toluene	410,000	0.013 U	0.032	0.013 U	0.77	0.016 U
1,1,1-Trichloroethane	--	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1,2-Trichloroethane	8,200	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Trichloroethene	1,200	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Vinyl Chloride	170	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
m,p-Xylene*	410,000	0.013 U	0.047	0.013 U	0.62	0.057
o-Xylene*	410,000	0.013 U	0.029	0.013 U	0.47	0.034
Xylenes, Total	410,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB29-002 12-14	SB31-001 2-3	SB31-002 6-8	SB32-001 2-3	SB32-002 3-5
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Bis(2-chloroethyl)ether	75	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Bis(2-ethylhexyl)phthalate	4,100	0.39 U	0.33 U	0.37 U	0.99	0.87
4-Bromophenyl phenyl ether	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Butyl benzyl phthalate	410,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Carbazole	6,200	0.39 U	0.33 U	0.37 U	0.46	1.3
4-Chloro-3-methylphenol +	41,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4-Chloroaniline	820	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Chloronaphthalene	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Chlorophenol	10,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Dibenzofuran +	820	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
1,2-Dichlorobenzene	18,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
1,3-Dichlorobenzene +	180	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
1,4-Dichlorobenzene	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
3,3´-Dichlorobenzidine	280	0.78 U	0.33 U	0.74 U	0.66 U	0.78 U
2,4-Dichlorophenol	610	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Diethyl phthalate	1,000,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Dimethyl phthalate +	1,000,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Di-n-butyl phthalate	200,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2,4-Dimethylphenol	41,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
2,4-Dinitrophenol	410	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
2,4-Dinitrotoluene	180	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2,6-Dinitrotoluene	180	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Di-n-octyl phthalate	4,100	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachlorobenzene	78	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachlorobutadiene +	41	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachlorocyclopentadiene	14,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachloroethane	2,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Isophorone	410,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Methylnaphthalene +	820	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Methylphenol	100,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4-Methylphenol +	1,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Nitroaniline	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
3-Nitroaniline	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
4-Nitroaniline	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
Nitrobenzene	1,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Nitrophenol	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
4-Nitrophenol	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
N-Nitrosodi-n-propylamine	18	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
N-Nitrosodiphenylamine	25,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.39 U	0.33 U	0.016 U	0.014 U	0.017 U
Pentachlorophenol	520	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
Phenol	120,000	0.39 U	15	0.37 U	0.33 U	0.39 U
1,2,4-Trichlorobenzene	2,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2,4,5-Trichlorophenol	200,000	0.78 U	0.66 U	0.74 U	0.66 U	0.78 U
2,4,6-Trichlorophenol	11,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB29-002 12-14	SB31-001 2-3	SB31-002 6-8	SB32-001 2-3	SB32-002 3-5
PAHs (mg/kg)						
Acenaphthene	120,000	0.029 U	0.44	0.028 U	0.8	0.84
Acenaphthylene +	61,000	0.029 U	0.13 U	0.029	1.2	0.99
Anthracene	610,000	0.029 U	0.7	0.047	1.5	0.98
Benzo(a)anthracene	170	0.029 U	0.2	0.028 U	2.7	1.8
Benzo(b)fluoranthene	170	0.029 U	0.84	0.028 U	1.2	0.87
Benzo(k)fluoranthene	1,700	0.029 U	0.48	0.028 U	0.76	0.75
Benzo(g,h,i)perylene +	61,000	0.029 U	1.5	0.028 U	0.61	0.38
Benzo(a)pyrene	17	0.029 U	0.91	0.028 U	1.7	1.1
Chrysene	17,000	0.029 U	1.5	0.075	2.5	1.7
Dibenzo(a,h)anthracene	17	0.029 U	0.13 U	0.028 U	0.25 U	0.3 U
Fluoranthene	82,000	0.029 U	0.67	0.075	3.4	2.8
Fluorene	82,000	0.029 U	0.53	0.03	1	0.87
Indeno(1,2,3-cd)pyrene	170	0.029 U	1.1	0.028 U	0.56	0.34
Naphthalene	4,100	0.029 U	0.68	0.11	0.25 U	2.1
Phenanthrene +	61,000	0.036	2	0.17	3.8	3.7
Pyrene	61,000	0.029 U	1.1	0.13	4.6	4
PCBs (mg/kg)						
Aroclor 1016	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1221	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1232	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1242	--	0.095 U	3.7	0.093 U	1.3	0.15
Aroclor 1248	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1254	--	0.19 U	1.8	0.19 U	1.1	0.19 U
Aroclor 1260	--	0.19 U	0.17 U	0.19 U	0.17 U	0.19 U
Total PCBs	1	0.855 U	6.002	0.845 U	2.910	0.902
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	1.1 UJ	1 UJ	1.1 UJ	1.1 J	1.1 J
Arsenic	61	7.2 J	5	12 J	4.8	3.4 J
Barium	14,000	38 J	43 J	31 J	110 J	80 J
Beryllium	410	0.55 U	0.62	0.93	1	0.9
Cadmium	200	0.55 U	1.2	0.55 U	1.2	0.7
Chromium	4,100	17 J	16 J	19 J	29 J	13 J
Copper	8,200	27 J	33 J	29 J	91 J	35 J
Lead	400	18	120 J	18	190 J	65
Mercury	61	0.032	0.25	0.037	0.21	0.052
Nickel	4,100	32 J	18 J	31 J	18 J	11 J
Selenium	1,000	1.1 U	1 U	1.1 U	0.98 U	1.1 U
Silver	1,000	1.1 U	1 U	1.1 U	0.98 U	1.1 U
Thallium	160	1.1 U	1 U	1.2	1.3	1.5
Zinc	61,000	50 J	200 J	45 J	260 J	88 J
Total Cyanide	4,100	0.29 U	0.24 U	0.27 U	0.25 U	0.27 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) Shaded value exceeds Tier 1 screening level.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB33-001 0-0.5	SB33-002 5-7	SB33-003 10-12	SP34-001 0-0.5	SP34-002 5-7
TCL Volatiles (mg/kg)						
Acetone	200,000	0.042 U	0.12	0.064 U	0.041 U	0.14
Benzene	2,300	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Bromodichloromethane	2,000	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Bromoform	16,000	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Bromomethane	1,000	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
2-Butanone	--	0.017 U	0.027	0.026 U	0.017 U	0.024 U
Carbon Disulfide	20,000	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Carbon Tetrachloride	410	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Chlorobenzene	4,100	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Chloroethane +	82,000	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
Chloroform	2,000	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Chloromethane +	820	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Dibromochloromethane	41,000	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1-Dichloroethane	200,000	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,2-Dichloroethane	1,400	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1-Dichloroethene	1,800	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
cis-1,2-Dichloroethene	20,000	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
trans-1,2-Dichloroethene	41,000	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,2-Dichloropropane	1,800	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
cis-1,3-Dichloropropene	1,200	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
trans-1,3-Dichloropropene	1,200	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Ethylbenzene	20,000	0.01	0.012 U	0.013 U	0.015	0.012 U
2-Hexanone +	8,200	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
4-Methyl-2-Pentanone	--	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
Methylene Chloride	12,000	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
Methyl tert-butyl ether	2,000	NA	NA	NA	NA	NA
Styrene	41,000	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1,2,2-Tetrachloroethane +	12,000	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Tetrachloroethene	2,400	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Toluene	410,000	0.0084 U	0.012 U	0.013 U	0.013	0.012 U
1,1,1-Trichloroethane	--	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1,2-Trichloroethane	8,200	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Trichloroethene	1,200	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Vinyl Chloride	170	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
m,p-Xylene*	410,000	0.0084 U	0.012 U	0.013 U	0.043	0.012 U
o-Xylene*	410,000	0.0084 U	0.025	0.013 U	0.033	0.012 U
Xylenes, Total	410,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB33-001 0-0.5	SB33-002 5-7	SB33-003 10-12	SP34-001 0-0.5	SP34-002 5-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Bis(2-chloroethyl)ether	75	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Bis(2-ethylhexyl)phthalate	4,100	2 U	0.4 U	0.39 U	2	0.4 U
4-Bromophenyl phenyl ether	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Butyl benzyl phthalate	410,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Carbazole	6,200	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Chloro-3-methylphenol +	41,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Chloroaniline	820	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Chloronaphthalene	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Chlorophenol	10,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Chlorophenyl phenyl ether	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Dibenzofuran +	820	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,2-Dichlorobenzene	18,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,3-Dichlorobenzene +	180	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,4-Dichlorobenzene	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
3,3´-Dichlorobenzidine	280	4.1 U	0.81 U	0.79 U	3.5 U	0.8 U
2,4-Dichlorophenol	610	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Diethyl phthalate	1,000,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Dimethyl phthalate +	1,000,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Di-n-butyl phthalate	200,000	6.3	0.4 U	0.39 U	1.8 U	0.4 U
2,4-Dimethylphenol	41,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4,6-Dinitro-2-methylphenol	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
2,4-Dinitrophenol	410	9.9 U	2 U	1.9 U	8.6 U	1.9 U
2,4-Dinitrotoluene	180	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2,6-Dinitrotoluene	180	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Di-n-octyl phthalate	4,100	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachlorobenzene	78	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachlorobutadiene +	41	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachlorocyclopentadiene	14,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachloroethane	2,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Isophorone	410,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Methylnaphthalene +	820	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Methylphenol	100,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Methylphenol +	1,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Nitroaniline	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
3-Nitroaniline	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
4-Nitroaniline	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
Nitrobenzene	1,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Nitrophenol	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
4-Nitrophenol	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
N-Nitrosodi-n-propylamine	18	2 U	0.4 U	0.39 U	1.8 U	0.4 U
N-Nitrosodiphenylamine	25,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.087 U	0.017 U	0.017 U	0.075 U	0.017 U
Pentachlorophenol	520	9.9 U	2 U	1.9 U	8.6 U	1.9 U
Phenol	120,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,2,4-Trichlorobenzene	2,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2,4,5-Trichlorophenol	200,000	4.1 U	0.81 U	0.79 U	3.5 U	0.8 U
2,4,6-Trichlorophenol	11,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB33-001 0-0.5	SB33-002 5-7	SB33-003 10-12	SP34-001 0-0.5	SP34-002 5-7
PAHs (mg/kg)						
Acenaphthene	120,000	1.5 U	0.031 U	0.03 U	0.13 U	0.12
Acenaphthylene +	61,000	1.6	0.031 U	0.03 U	0.19	0.086
Anthracene	610,000	1.8	0.031 U	0.03 U	0.36	0.17
Benzo(a)anthracene	170	2.8	0.031 U	0.03 U	0.13 U	0.094
Benzo(b)fluoranthene	170	1.7	0.031 U	0.03 U	0.24	0.13
Benzo(k)fluoranthene	1,700	1.5 U	0.031 U	0.03 U	0.24	0.14
Benzo(g,h,i)perylene +	61,000	1.5 U	0.031 U	0.03 U	0.57	0.36
Benzo(a)pyrene	17	1.8	0.031 U	0.03 U	0.13	0.14
Chrysene	17,000	3.2	0.031 U	0.041	0.75	0.39
Dibenzo(a,h)anthracene	17	1.5 U	0.031 U	0.03 U	0.13 U	0.11
Fluoranthene	82,000	3.7	0.031 U	0.039	0.21	0.33
Fluorene	82,000	1.5 U	0.031 U	0.03 U	0.13 U	0.31
Indeno(1,2,3-cd)pyrene	170	1.5 U	0.031 U	0.03 U	0.29	0.24
Naphthalene	4,100	2.1	0.14	0.042	0.38	0.03 U
Phenanthrene +	61,000	4.1	0.076	0.083	1.3	0.13
Pyrene	61,000	5.5	0.047	0.033	0.36	1.2
PCBs (mg/kg)						
Aroclor 1016	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1221	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1232	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1242	--	2.5	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1248	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1254	--	2.2	0.19 U	0.19 U	1.7 U	0.2 U
Aroclor 1260	--	0.18 U	0.19 U	0.19 U	1.7 U	0.2 U
Total PCBs	1	5.232	0.860 U	0.850 U	7.750 U	0.890 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	1.1 UJ	1.1 UJ	1.1 UJ	1 UJ	1.2 UJ
Arsenic	61	5.9	5.1 J	17 J	1.2	7.5 J
Barium	14,000	100 J	97 J	63 J	59 J	100 J
Beryllium	410	0.86	1.2	1	0.57	1.3
Cadmium	200	0.59	0.59	0.54 U	0.54	0.59 U
Chromium	4,100	11 J	17 J	16 J	5.1 J	21 J
Copper	8,200	43 J	31 J	55 J	6.8 J	28 J
Lead	400	140 J	17	30	25 J	19
Mercury	61	0.28	0.046	0.023 U	0.026 U	0.031 U
Nickel	4,100	12 J	26 J	30 J	7.4 J	33 J
Selenium	1,000	1.1 U	1.1 U	1.1 U	1 U	1.2 U
Silver	1,000	1.1 U	1.1 U	1.1 U	1 U	1.2 U
Thallium	160	1.5	1.9	2	1.3	2.1
Zinc	61,000	69 J	54 J	43 J	29 J	53 J
Total Cyanide	4,100	0.29 U	0.34 U	0.29 U	0.27 U	0.31 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) Shaded value exceeds Tier 1 screening level.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP35-001 1-2	SP35-002 6-7	SP35-003 12-13	SP37-001 1-2	SP37-002 8-9
TCL Volatiles (mg/kg)						
Acetone	200,000	0.14	0.13	0.042 U	0.044 U	0.082
Benzene	2,300	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Bromodichloromethane	2,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Bromoform	16,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Bromomethane	1,000	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
2-Butanone	--	0.015	0.027	0.017 U	0.018 U	0.02 U
Carbon Disulfide	20,000	0.013	0.012 U	0.0084 U	0.0088 U	0.0099 U
Carbon Tetrachloride	410	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Chlorobenzene	4,100	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Chloroethane +	82,000	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
Chloroform	2,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Chloromethane +	820	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Dibromochloromethane	41,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1-Dichloroethane	200,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,2-Dichloroethane	1,400	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1-Dichloroethene	1,800	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
cis-1,2-Dichloroethene	20,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
trans-1,2-Dichloroethene	41,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,2-Dichloropropane	1,800	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
cis-1,3-Dichloropropene	1,200	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
trans-1,3-Dichloropropene	1,200	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Ethylbenzene	20,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
2-Hexanone +	8,200	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
4-Methyl-2-Pentanone	--	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
Methylene Chloride	12,000	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
Methyl tert-butyl ether	2,000	NA	NA	NA	NA	NA
Styrene	41,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1,2,2-Tetrachloroethane +	12,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Tetrachloroethene	2,400	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Toluene	410,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1,1-Trichloroethane	--	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1,2-Trichloroethane	8,200	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Trichloroethene	1,200	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Vinyl Chloride	170	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
m,p-Xylene*	410,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
o-Xylene*	410,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Xylenes, Total	410,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP35-001 1-2	SP35-002 6-7	SP35-003 12-13	SP37-001 1-2	SP37-002 8-9
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Bis(2-chloroethyl)ether	75	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Bis(2-ethylhexyl)phthalate	4,100	5.6	0.39 U	0.39 U	0.42 U	0.39 U
4-Bromophenyl phenyl ether	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Butyl benzyl phthalate	410,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Carbazole	6,200	0.47	0.39 U	0.39 U	0.67	0.39 U
4-Chloro-3-methylphenol +	41,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4-Chloroaniline	820	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Chloronaphthalene	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Chlorophenol	10,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Dibenzofuran +	820	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,2-Dichlorobenzene	18,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,3-Dichlorobenzene +	180	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,4-Dichlorobenzene	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
3,3´-Dichlorobenzidine	280	0.71 U	0.79 U	0.77 U	0.85 U	0.77 U
2,4-Dichlorophenol	610	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Diethyl phthalate	1,000,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Dimethyl phthalate +	1,000,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Di-n-butyl phthalate	200,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2,4-Dimethylphenol	41,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
2,4-Dinitrophenol	410	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
2,4-Dinitrotoluene	180	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2,6-Dinitrotoluene	180	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Di-n-octyl phthalate	4,100	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachlorobenzene	78	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachlorobutadiene +	41	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachlorocyclopentadiene	14,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachloroethane	2,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Isophorone	410,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Methylnaphthalene +	820	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Methylphenol	100,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4-Methylphenol +	1,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Nitroaniline	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
3-Nitroaniline	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
4-Nitroaniline	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
Nitrobenzene	1,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Nitrophenol	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
4-Nitrophenol	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
N-Nitrosodi-n-propylamine	18	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
N-Nitrosodiphenylamine	25,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.015 U	0.017 U	0.016 U	0.018 U	0.016 U
Pentachlorophenol	520	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
Phenol	120,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,2,4-Trichlorobenzene	2,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2,4,5-Trichlorophenol	200,000	0.71 U	0.79 U	0.77 U	0.85 U	0.77 U
2,4,6-Trichlorophenol	11,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP35-001 1-2	SP35-002 6-7	SP35-003 12-13	SP37-001 1-2	SP37-002 8-9
PAHs (mg/kg)						
Acenaphthene	120,000	0.11	0.03 U	0.029 U	0.13	0.029 U
Acenaphthylene +	61,000	0.082	0.03 U	0.029 U	0.074	0.029 U
Anthracene	610,000	0.15	0.03 U	0.029 U	0.33	0.029 U
Benzo(a)anthracene	170	0.19	0.064	0.029 U	0.17	0.029 U
Benzo(b)fluoranthene	170	0.47	0.041	0.029 U	0.38	0.029 U
Benzo(k)fluoranthene	1,700	0.53	0.056	0.029 U	0.87	0.029 U
Benzo(g,h,i)perylene +	61,000	0.57	0.037	0.029 U	0.35	0.029 U
Benzo(a)pyrene	17	0.33	0.072	0.029 U	0.32	0.029 U
Chrysene	17,000	0.71	0.066	0.029 U	1.1	0.029 U
Dibenzo(a,h)anthracene	17	0.076	0.03 U	0.029 U	0.19	0.029 U
Fluoranthene	82,000	0.55	0.074	0.029 U	2	0.029 U
Fluorene	82,000	0.086	0.03 U	0.029 U	0.12	0.029 U
Indeno(1,2,3-cd)pyrene	170	0.18	0.036	0.029 U	0.36	0.029 U
Naphthalene	4,100	0.16	0.03 U	0.029 U	0.18	0.056
Phenanthrene +	61,000	0.7	0.03 U	0.029 U	1	0.029 U
Pyrene	61,000	0.63	0.074	0.029 U	2.1	0.029 U
PCBs (mg/kg)						
Aroclor 1016	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1221	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1232	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1242	--	8.5	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1248	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1254	--	6	0.19 U	0.19 U	0.2 U	0.18 U
Aroclor 1260	--	0.17 U	0.19 U	0.19 U	0.2 U	0.18 U
Total PCBs	1	15.014	0.855 U	0.855 U	0.900 U	0.820 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	6.5 J	1.1 UJ	1.1 UJ	1.2 UJ	0.97 UJ
Arsenic	61	20	5.8 J	12 J	7.2	15 J
Barium	14,000	520 J	98 J	89 J	120 J	98 J
Beryllium	410	1.4	0.83	1.1	1.1	1.2
Cadmium	200	8.1	0.56 U	0.56 U	0.72	0.53
Chromium	4,100	320 J	11 J	20 J	19 J	20 J
Copper	8,200	480 J	11 J	30 J	28 J	38 J
Lead	400	1400 J	36	25	61 J	22
Mercury	61	2.6	0.14	0.024 U	0.33	0.026 U
Nickel	4,100	210 J	12 J	35 J	26 J	38 J
Selenium	1,000	0.99 U	1.1 U	1.1 U	1.2 U	0.97 U
Silver	1,000	1	1.1 U	1.1 U	1.2 U	0.97 U
Thallium	160	1.3	2	2.2	2	2
Zinc	61,000	1600 J	40 J	49 J	73 J	46 J
Total Cyanide	4,100	0.28 U	0.29 U	0.24 U	0.35 U	0.25 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) Shaded value exceeds Tier 1 screening level.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP37-003 12-13	SB38-001 5-7	SP39-001 1-2	SP39-002 5-6	SP39-003 10-11
TCL Volatiles (mg/kg)						
Acetone	200,000	0.066 J	0.12 J	0.036 U	0.11	0.047 U
Benzene	2,300	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Bromodichloromethane	2,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Bromoform	16,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Bromomethane	1,000	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
2-Butanone	--	0.023 U	0.029 UJ	0.014 U	0.027	0.019 U
Carbon Disulfide	20,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Carbon Tetrachloride	410	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Chlorobenzene	4,100	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Chloroethane +	82,000	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
Chloroform	2,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Chloromethane +	820	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Dibromochloromethane	41,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1-Dichloroethane	200,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,2-Dichloroethane	1,400	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1-Dichloroethene	1,800	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
cis-1,2-Dichloroethene	20,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
trans-1,2-Dichloroethene	41,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,2-Dichloropropane	1,800	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
cis-1,3-Dichloropropene	1,200	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
trans-1,3-Dichloropropene	1,200	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Ethylbenzene	20,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
2-Hexanone +	8,200	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
4-Methyl-2-Pentanone	--	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
Methylene Chloride	12,000	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
Methyl tert-butyl ether	2,000	NA	NA	NA	NA	NA
Styrene	41,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1,2,2-Tetrachloroethane +	12,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Tetrachloroethene	2,400	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Toluene	410,000	0.012 U	0.014 UJ	0.008	0.013 U	0.0094 U
1,1,1-Trichloroethane	--	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1,2-Trichloroethane	8,200	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Trichloroethene	1,200	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Vinyl Chloride	170	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
m,p-Xylene*	410,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
o-Xylene*	410,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Xylenes, Total	410,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) J - Indicates an estimated value.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP37-003 12-13	SB38-001 5-7	SP39-001 1-2	SP39-002 5-6	SP39-003 10-11
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Bis(2-chloroethyl)ether	75	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Bis(2-ethylhexyl)phthalate	4,100	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Bromophenyl phenyl ether	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Butyl benzyl phthalate	410,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Carbazole	6,200	0.38 U	0.53	1.7 U	0.4 U	0.38 U
4-Chloro-3-methylphenol +	41,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Chloroaniline	820	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Chloronaphthalene	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Chlorophenol	10,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Chlorophenyl phenyl ether	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Dibenzofuran +	820	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,2-Dichlorobenzene	18,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,3-Dichlorobenzene +	180	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,4-Dichlorobenzene	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
3,3´-Dichlorobenzidine	280	0.75 U	0.83 U	3.5 U	0.8 U	0.77 U
2,4-Dichlorophenol	610	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Diethyl phthalate	1,000,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Dimethyl phthalate +	1,000,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Di-n-butyl phthalate	200,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2,4-Dimethylphenol	41,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4,6-Dinitro-2-methylphenol	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
2,4-Dinitrophenol	410	1.8 U	2 U	8.4 U	1.9 U	1.9 U
2,4-Dinitrotoluene	180	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2,6-Dinitrotoluene	180	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Di-n-octyl phthalate	4,100	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachlorobenzene	78	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachlorobutadiene +	41	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachlorocyclopentadiene	14,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachloroethane	2,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Isophorone	410,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Methylnaphthalene +	820	0.38 U	1.7	1.7 U	0.4 U	0.38 U
2-Methylphenol	100,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Methylphenol +	1,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Nitroaniline	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
3-Nitroaniline	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
4-Nitroaniline	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
Nitrobenzene	1,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Nitrophenol	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
4-Nitrophenol	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	18	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
N-Nitrosodiphenylamine	25,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.018 U	0.074 U	0.017 U	0.016 U
Pentachlorophenol	520	1.8 U	2 U	8.4 U	1.9 U	1.9 U
Phenol	120,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,2,4-Trichlorobenzene	2,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2,4,5-Trichlorophenol	200,000	0.75 U	0.83 U	3.5 U	0.8 U	0.77 U
2,4,6-Trichlorophenol	11,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP37-003 12-13	SB38-001 5-7	SP39-001 1-2	SP39-002 5-6	SP39-003 10-11
PAHs (mg/kg)						
Acenaphthene	120,000	0.028 U	0.42	1.3 U	0.056	0.029 U
Acenaphthylene +	61,000	0.028 U	0.37	1.3 U	0.03 U	0.029 U
Anthracene	610,000	0.028 U	1.7	1.3 U	0.29	0.03
Benzo(a)anthracene	170	0.028 U	1.9	1.3 U	0.13	0.029 U
Benzo(b)fluoranthene	170	0.028 U	1.1	1.3 U	0.58	0.029 U
Benzo(k)fluoranthene	1,700	0.028 U	0.96	1.3 U	0.65	0.029 U
Benzo(g,h,i)perylene +	61,000	0.028 U	0.46	1.3 U	0.31	0.029 U
Benzo(a)pyrene	17	0.028 U	0.89	1.3 U	0.64	0.029 U
Chrysene	17,000	0.028 U	2.3	1.3 U	1.1	0.056
Dibenzo(a,h)anthracene	17	0.028 U	0.15	1.3 U	0.23	0.029 U
Fluoranthene	82,000	0.028 U	4.1	1.3 U	1.6	0.081
Fluorene	82,000	0.028 U	0.7	1.3 U	0.056	0.029 U
Indeno(1,2,3-cd)pyrene	170	0.028 U	0.38	1.3 U	0.3 U	0.029 U
Naphthalene	4,100	0.028 U	2	1.3 U	0.032	0.029 U
Phenanthrene +	61,000	0.028 U	5.7	1.3	0.81	0.071
Pyrene	61,000	0.028 U	4.7	2	1.7	0.076
PCBs (mg/kg)						
Aroclor 1016	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1221	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1232	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1242	--	0.092 U	0.1 U	0.087 U	0.1 U	0.14
Aroclor 1248	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1254	--	0.18 U	0.2 U	0.17 U	0.2 U	0.19 U
Aroclor 1260	--	0.18 U	0.2 U	0.17 U	0.2 U	0.19 U
Total PCBs	1	0.820 U	0.900 U	0.775 U	0.900 U	0.900
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	1.2 UJ	1.3 UJ	1.1 UJ	6 J	1 UJ
Arsenic	61	7.7 J	7.7 J	1.7	10 J	8.1 J
Barium	14,000	85 J	49 J	57 J	140 J	83 J
Beryllium	410	1.1	1.1	0.59	1.1	1.1
Cadmium	200	0.59 U	0.69	0.95	1	0.51 U
Chromium	4,100	19 J	22 J	5.6 J	11 J	19 J
Copper	8,200	25 J	33 J	9.1 J	59 J	30 J
Lead	400	17	40	23 J	970	19
Mercury	61	0.029 U	0.051	0.025 U	6.2	0.027
Nickel	4,100	25 J	28 J	8.8 J	13 J	29 J
Selenium	1,000	1.2 U	1.3 U	1.1 U	1.1 U	1 U
Silver	1,000	1.2 U	1.3 U	1.1 U	1.1 U	1 U
Thallium	160	1.8	1.5	1.4	1.6	1.9
Zinc	61,000	37 J	88 J	33 J	200 J	40 J
Total Cyanide	4,100	0.31 U	0.33 U	0.28 U	0.31 U	0.3 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) Shaded value exceeds Tier 1 screening level.
(7) J - Indicates an estimated value.
(8) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP40-002 7-8	SP40-003 14-15	SP43-001 2-3	SP43-002 3.5-4.5	SP43-003 11-12
TCL Volatiles (mg/kg)						
Acetone	200,000	0.071	0.043 U	0.15	0.063 U	0.041 U
Benzene	2,300	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Bromodichloromethane	2,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Bromoform	16,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Bromomethane	1,000	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
2-Butanone	--	0.02 U	0.017 U	0.031	0.025 U	0.017 U
Carbon Disulfide	20,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Carbon Tetrachloride	410	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Chlorobenzene	4,100	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Chloroethane +	82,000	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
Chloroform	2,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Chloromethane +	820	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Dibromochloromethane	41,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1-Dichloroethane	200,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,2-Dichloroethane	1,400	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1-Dichloroethene	1,800	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
cis-1,2-Dichloroethene	20,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
trans-1,2-Dichloroethene	41,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,2-Dichloropropane	1,800	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
cis-1,3-Dichloropropene	1,200	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
trans-1,3-Dichloropropene	1,200	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Ethylbenzene	20,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
2-Hexanone +	8,200	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
4-Methyl-2-Pentanone	--	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
Methylene Chloride	12,000	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
Methyl tert-butyl ether	2,000	NA	NA	NA	NA	NA
Styrene	41,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1,2,2-Tetrachloroethane +	12,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Tetrachloroethene	2,400	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Toluene	410,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1,1-Trichloroethane	--	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1,2-Trichloroethane	8,200	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Trichloroethene	1,200	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Vinyl Chloride	170	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
m,p-Xylene*	410,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
o-Xylene*	410,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Xylenes, Total	410,000	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP40-002 7-8	SP40-003 14-15	SP43-001 2-3	SP43-002 3.5-4.5	SP43-003 11-12
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Bis(2-chloroethyl)ether	75	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Bis(2-ethylhexyl)phthalate	4,100	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Bromophenyl phenyl ether	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Butyl benzyl phthalate	410,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Carbazole	6,200	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Chloro-3-methylphenol +	41,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Chloroaniline	820	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Chloronaphthalene	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Chlorophenol	10,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Dibenzofuran +	820	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,2-Dichlorobenzene	18,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,3-Dichlorobenzene +	180	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,4-Dichlorobenzene	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
3,3´-Dichlorobenzidine	280	0.77 U	0.77 U	0.85 U	0.78 U	0.78 U
2,4-Dichlorophenol	610	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Diethyl phthalate	1,000,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Dimethyl phthalate +	1,000,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Di-n-butyl phthalate	200,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2,4-Dimethylphenol	41,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
2,4-Dinitrophenol	410	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
2,4-Dinitrotoluene	180	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2,6-Dinitrotoluene	180	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Di-n-octyl phthalate	4,100	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachlorobenzene	78	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachlorobutadiene +	41	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachlorocyclopentadiene	14,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachloroethane	2,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Isophorone	410,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Methylnaphthalene +	820	0.39 U	0.39 U	0.43 U	1.6	0.39 U
2-Methylphenol	100,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Methylphenol +	1,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Nitroaniline	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
3-Nitroaniline	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
4-Nitroaniline	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
Nitrobenzene	1,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Nitrophenol	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
4-Nitrophenol	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	18	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
N-Nitrosodiphenylamine	25,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.018 U	0.016 U	0.016 U
Pentachlorophenol	520	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
Phenol	120,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,2,4-Trichlorobenzene	2,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2,4,5-Trichlorophenol	200,000	0.77 U	0.77 U	0.85 U	0.78 U	0.78 U
2,4,6-Trichlorophenol	11,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP40-002 7-8	SP40-003 14-15	SP43-001 2-3	SP43-002 3.5-4.5	SP43-003 11-12
PAHs (mg/kg)						
Acenaphthene	120,000	0.029 U	0.029 U	0.072	0.062	0.029 U
Acenaphthylene +	61,000	0.029 U	0.029 U	0.17	0.074	0.029 U
Anthracene	610,000	0.029 U	0.029 U	0.032 U	0.029	0.029 U
Benzo(a)anthracene	170	0.029 U	0.029 U	0.045	0.09	0.029 U
Benzo(b)fluoranthene	170	0.029 U	0.029 U	0.12	0.13	0.029 U
Benzo(k)fluoranthene	1,700	0.029 U	0.029 U	0.098	0.11	0.029 U
Benzo(g,h,i)perylene +	61,000	0.029 U	0.029 U	0.062	0.087	0.029 U
Benzo(a)pyrene	17	0.029 U	0.029 U	0.056	0.13	0.029 U
Chrysene	17,000	0.029 U	0.029 U	0.3	0.16	0.029 U
Dibenzo(a,h)anthracene	17	0.029 U	0.029 U	0.032 U	0.038	0.029 U
Fluoranthene	82,000	0.029 U	0.029 U	0.15	0.17	0.029 U
Fluorene	82,000	0.029 U	0.029 U	0.032 U	0.16	0.029 U
Indeno(1,2,3-cd)pyrene	170	0.029 U	0.029 U	0.043	0.076	0.029 U
Naphthalene	4,100	0.029 U	0.029 U	0.062	0.22	0.029 U
Phenanthrene +	61,000	0.029 U	0.029 U	0.19	0.38	0.029 U
Pyrene	61,000	0.029 U	0.029 U	0.14	0.088	0.029 U
PCBs (mg/kg)						
Aroclor 1016	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1221	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1232	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1242	--	0.093 U	0.094 U	0.1 U	0.28	0.097 U
Aroclor 1248	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1254	--	0.19 U	0.19 U	0.21 U	0.26	0.19 U
Aroclor 1260	--	0.19 U	0.19 U	0.21 U	0.2 U	0.19 U
Total PCBs	1	0.845 U	0.850 U	0.920 U	1.136	0.865 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	1.1 UJ	1 UJ	1.3 UJ	NA	1 UJ
Arsenic	61	10 J	8.3 J	9.5	NA	9 J
Barium	14,000	88 J	87 J	170 J	NA	91 J
Beryllium	410	1.1	1.1	1.2	NA	1.1
Cadmium	200	0.56 U	0.52 U	0.85	NA	0.5 U
Chromium	4,100	16 J	19 J	16 J	NA	21 J
Copper	8,200	33 J	28 J	73 J	NA	30 J
Lead	400	19	17	69 J	NA	19
Mercury	61	0.029 U	0.028 U	0.18	NA	0.03 U
Nickel	4,100	36 J	28 J	20 J	NA	33 J
Selenium	1,000	1.1 U	1 U	1.3 U	NA	1 U
Silver	1,000	1.1 U	1 U	1.3 U	NA	1 U
Thallium	160	2.2	1.9	1.9	NA	1.9
Zinc	61,000	52 J	45 J	100 J	NA	46 J
Total Cyanide	4,100	0.32 U	0.27 U	0.35 U	NA	0.27 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) Shaded value exceeds Tier 1 screening level.
(7) J - Indicates an estimated value.
(8) NA - Not analyzed.
(9) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(10) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP44-001 0-0.5	SP44-002 6-7	SP44-003 12-13	SB45-001 0-0.5	SB46-001 10-12
TCL Volatiles (mg/kg)						
Acetone	200,000	0.079 U	0.082	0.069 U	0.065	0.036 U
Benzene	2,300	0.016 U	0.0089 U	0.014 U	0.12	0.0073 U
Bromodichloromethane	2,000	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Bromoform	16,000	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Bromomethane	1,000	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
2-Butanone	--	0.031 U	0.018 U	0.028 U	0.034	0.015 U
Carbon Disulfide	20,000	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Carbon Tetrachloride	410	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Chlorobenzene	4,100	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Chloroethane +	82,000	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
Chloroform	2,000	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Chloromethane +	820	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Dibromochloromethane	41,000	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,1-Dichloroethane	200,000	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,2-Dichloroethane	1,400	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,1-Dichloroethene	1,800	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
cis-1,2-Dichloroethene	20,000	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
trans-1,2-Dichloroethene	41,000	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,2-Dichloropropane	1,800	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
cis-1,3-Dichloropropene	1,200	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
trans-1,3-Dichloropropene	1,200	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Ethylbenzene	20,000	0.016 U	0.0089 U	0.014 U	0.37	0.0073 U
2-Hexanone +	8,200	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
4-Methyl-2-Pentanone	--	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
Methylene Chloride	12,000	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
Methyl tert-butyl ether	2,000	NA	NA	NA	NA	0.0073 U
Styrene	41,000	0.016 U	0.0089 U	0.014 U	0.014	0.0073 U
1,1,2,2-Tetrachloroethane +	12,000	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Tetrachloroethene	2,400	0.023	0.0089 U	0.014 U	0.0094 U	0.0073 U
Toluene	410,000	0.016 U	0.0089 U	0.014 U	0.025	0.0073 U
1,1,1-Trichloroethane	--	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,1,2-Trichloroethane	8,200	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Trichloroethene	1,200	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Vinyl Chloride	170	0.031 U	0.018 U	0.028 U	0.019 U	0.0073 U
m,p-Xylene*	410,000	0.016 U	0.0089 U	0.014 U	0.057	NA
o-Xylene*	410,000	0.016 U	0.0089 U	0.014 U	0.17	NA
Xylenes, Total	410,000	NA	NA	NA	NA	0.015 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP44-001 0-0.5	SP44-002 6-7	SP44-003 12-13	SB45-001 0-0.5	SB46-001 10-12
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Bis(2-chloroethyl)ether	75	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Bis(2-ethylhexyl)phthalate	4,100	9.7	0.4 U	0.39 U	2.1	0.43 U
4-Bromophenyl phenyl ether	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Butyl benzyl phthalate	410,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Carbazole	6,200	1.9 U	0.4 U	0.39 U	0.87	0.87
4-Chloro-3-methylphenol +	41,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4-Chloroaniline	820	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Chloronaphthalene	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Chlorophenol	10,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4-Chlorophenyl phenyl ether	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Dibenzofuran +	820	1.9 U	0.4 U	0.39 U	0.35 U	1.8
1,2-Dichlorobenzene	18,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
1,3-Dichlorobenzene +	180	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
1,4-Dichlorobenzene	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
3,3´-Dichlorobenzidine	280	3.9 U	0.79 U	0.77 U	0.69 U	0.86 U
2,4-Dichlorophenol	610	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Diethyl phthalate	1,000,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Dimethyl phthalate +	1,000,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Di-n-butyl phthalate	200,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2,4-Dimethylphenol	41,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4,6-Dinitro-2-methylphenol	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
2,4-Dinitrophenol	410	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
2,4-Dinitrotoluene	180	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
2,6-Dinitrotoluene	180	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
Di-n-octyl phthalate	4,100	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachlorobenzene	78	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachlorobutadiene +	41	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachlorocyclopentadiene	14,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachloroethane	2,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Isophorone	410,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Methylnaphthalene +	820	1.9 U	0.4 U	0.39 U	1.7	2.8
2-Methylphenol	100,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4-Methylphenol +	1,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Nitroaniline	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
3-Nitroaniline	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
4-Nitroaniline	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
Nitrobenzene	1,000	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
2-Nitrophenol	--	9.4 U	1.9 U	1.9 U	1.7 U	0.43 U
4-Nitrophenol	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
N-Nitrosodi-n-propylamine	18	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
N-Nitrosodiphenylamine	25,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2, 2'-Oxybis(1-Chloropropane)	--	0.082 U	0.017 U	0.016 U	0.015 U	0.43 U
Pentachlorophenol	520	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
Phenol	120,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
1,2,4-Trichlorobenzene	2,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2,4,5-Trichlorophenol	200,000	3.9 U	0.79 U	0.77 U	0.69 U	0.86 U
2,4,6-Trichlorophenol	11,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP44-001 0-0.5	SP44-002 6-7	SP44-003 12-13	SB45-001 0-0.5	SB46-001 10-12
PAHs (mg/kg)						
Acenaphthene	120,000	0.15 U	0.03 U	0.029 U	0.74	4.9
Acenaphthylene +	61,000	0.15 U	0.03 U	0.029 U	0.65	0.73
Anthracene	610,000	0.16	0.03 U	0.029 U	1.9	6.4
Benzo(a)anthracene	170	0.15 U	0.03 U	0.029 U	2.5	5.8
Benzo(b)fluoranthene	170	0.78	0.03 U	0.029 U	2	4.5
Benzo(k)fluoranthene	1,700	0.81	0.03 U	0.029 U	1.9	4.1
Benzo(g,h,i)perylene +	61,000	1.1	0.03 U	0.029 U	1.3	2.7
Benzo(a)pyrene	17	0.45	0.03 U	0.029 U	2.4	5.9
Chrysene	17,000	0.83	0.03 U	0.029 U	3.9	5.4
Dibenzo(a,h)anthracene	17	0.25	0.03 U	0.029 U	0.37	0.83
Fluoranthene	82,000	0.45	0.03 U	0.029 U	4.1	13
Fluorene	82,000	0.15 U	0.03 U	0.029 U	1.2	3.8
Indeno(1,2,3-cd)pyrene	170	0.69	0.03 U	0.029 U	0.94	2.4
Naphthalene	4,100	0.15 U	0.03 U	0.029 U	1.8	6.5
Phenanthrene +	61,000	0.42	0.03 U	0.029 U	3.6	17
Pyrene	61,000	0.64	0.03 U	0.029 U	6.8	14
PCBs (mg/kg)						
Aroclor 1016	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1221	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1232	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1242	--	1.5	0.096 U	0.093 U	5.2 U	NA
Aroclor 1248	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1254	--	1	0.19 U	0.19 U	5.2 U	NA
Aroclor 1260	--	0.19 U	0.19 U	0.19 U	0.17 U	NA
Total PCBs	1	3.066	0.860 U	0.845 U	10.906 U	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	0.98 J	1.1 UJ	1.2 UJ	0.95 UJ	NA
Arsenic	61	3.8	13 J	9.3 J	7.6	NA
Barium	14,000	140 J	79 J	94 J	59 J	NA
Beryllium	410	1.1	1.2	1.2	0.63	NA
Cadmium	200	1.5	0.57 U	0.58 U	1.1	NA
Chromium	4,100	21 J	20 J	20 J	13 J	NA
Copper	8,200	79 J	31 J	33 J	42 J	NA
Lead	400	210 J	19	20	240 J	NA
Mercury	61	0.38	0.03 U	0.026 U	0.3	NA
Nickel	4,100	16 J	39 J	35 J	17 J	NA
Selenium	1,000	0.94 U	1.1 U	1.2 U	0.95 U	NA
Silver	1,000	0.94 U	1.1 U	1.2 U	0.95 U	NA
Thallium	160	1.3	1.8	2.3	0.95 U	NA
Zinc	61,000	290 J	52 J	45 J	140 J	NA
Total Cyanide	4,100	0.28 U	0.32 U	0.31 U	1.3	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) Shaded value exceeds Tier 1 screening level.
(7) J - Indicates an estimated value.
(8) NA - Not analyzed.
(9) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(10) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB46-002 16 -18	SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10	SB48-002 18 - 20
TCL Volatiles (mg/kg)						
Acetone	200,000	0.031 U	0.035 U	0.032 U	0.036 U	0.03 U
Benzene	2,300	0.0062 U	0.05	0.0065 U	0.0072 U	0.0059 U
Bromodichloromethane	2,000	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Bromoform	16,000	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Bromomethane	1,000	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
2-Butanone	--	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Carbon Disulfide	20,000	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Carbon Tetrachloride	410	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Chlorobenzene	4,100	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Chloroethane +	82,000	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Chloroform	2,000	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Chloromethane +	820	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Dibromochloromethane	41,000	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1-Dichloroethane	200,000	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,2-Dichloroethane	1,400	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1-Dichloroethene	1,800	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
cis-1,2-Dichloroethene	20,000	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
trans-1,2-Dichloroethene	41,000	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,2-Dichloropropane	1,800	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
cis-1,3-Dichloropropene	1,200	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
trans-1,3-Dichloropropene	1,200	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Ethylbenzene	20,000	0.0062 U	0.33	0.0065 U	0.0072 U	0.0059 U
2-Hexanone +	8,200	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
4-Methyl-2-Pentanone	--	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Methylene Chloride	12,000	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Methyl tert-butyl ether	2,000	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Styrene	41,000	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1,2,2-Tetrachloroethane +	12,000	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Tetrachloroethene	2,400	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Toluene	410,000	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1,1-Trichloroethane	--	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1,2-Trichloroethane	8,200	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Trichloroethene	1,200	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Vinyl Chloride	170	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
m,p-Xylene*	410,000	NA	NA	NA	NA	NA
o-Xylene*	410,000	NA	NA	NA	NA	NA
Xylenes, Total	410,000	0.012 U	0.26	0.013 U	0.014 U	0.012 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB46-002 16 -18	SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10	SB48-002 18 - 20
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Bis(2-chloroethyl)ether	75	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Bis(2-ethylhexyl)phthalate	4,100	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Bromophenyl phenyl ether	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Butyl benzyl phthalate	410,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Carbazole	6,200	0.42 U	1.1	0.41 U	0.57	0.41 U
4-Chloro-3-methylphenol +	41,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Chloroaniline	820	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Chloronaphthalene	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Chlorophenol	10,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Dibenzofuran +	820	0.42 U	2.5	0.41 U	1.5	0.41 U
1,2-Dichlorobenzene	18,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
1,3-Dichlorobenzene +	180	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
1,4-Dichlorobenzene	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
3,3´-Dichlorobenzidine	280	0.83 U	0.88 U	0.82 U	0.89 U	0.82 U
2,4-Dichlorophenol	610	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Diethyl phthalate	1,000,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Dimethyl phthalate +	1,000,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Di-n-butyl phthalate	200,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2,4-Dimethylphenol	41,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4,6-Dinitro-2-methylphenol	--	2 U	2.1 U	2 U	2.2 U	2 U
2,4-Dinitrophenol	410	2 U	2.1 U	2 U	2.2 U	2 U
2,4-Dinitrotoluene	180	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
2,6-Dinitrotoluene	180	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
Di-n-octyl phthalate	4,100	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachlorobenzene	78	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachlorobutadiene +	41	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachlorocyclopentadiene	14,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachloroethane	2,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Isophorone	410,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Methylnaphthalene +	820	0.42 U	27	0.41 U	2.5	1.1
2-Methylphenol	100,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Methylphenol +	1,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Nitroaniline	--	2 U	2.1 U	2 U	2.2 U	2 U
3-Nitroaniline	--	2 U	2.1 U	2 U	2.2 U	2 U
4-Nitroaniline	--	2 U	2.1 U	2 U	2.2 U	2 U
Nitrobenzene	1,000	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
2-Nitrophenol	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Nitrophenol	--	2 U	2.1 U	2 U	2.2 U	2 U
N-Nitrosodi-n-propylamine	18	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
N-Nitrosodiphenylamine	25,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2, 2'-Oxybis(1-Chloropropane)	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Pentachlorophenol	520	2 U	2.1 U	2 U	2.2 U	2 U
Phenol	120,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
1,2,4-Trichlorobenzene	2,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2,4,5-Trichlorophenol	200,000	0.83 U	0.88 U	0.82 U	0.89 U	0.82 U
2,4,6-Trichlorophenol	11,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB46-002 16 -18	SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10	SB48-002 18 - 20
PAHs (mg/kg)						
Acenaphthene	120,000	0.17	22	0.074	5.9	0.41
Acenaphthylene +	61,000	0.033	2.7	0.031 U	0.99	0.031 U
Anthracene	610,000	0.19	11	0.031 U	9.5	0.16
Benzo(a)anthracene	170	0.17	9	0.032	8.6	0.11
Benzo(b)fluoranthene	170	0.075	4.5	0.031 U	5.5	0.063
Benzo(k)fluoranthene	1,700	0.12	5.1	0.031 U	6.2	0.082
Benzo(g,h,i)perylene +	61,000	0.046	3.9	0.031 U	5.5	0.034
Benzo(a)pyrene	17	0.086	4.6	0.031 U	9.8	0.088
Chrysene	17,000	0.2	8	0.048	8.1	0.14
Dibenzo(a,h)anthracene	17	0.031 U	0.91	0.031 U	1.2	0.031 U
Fluoranthene	82,000	0.42	20	0.072	20	0.22
Fluorene	82,000	0.13	13	0.04	3.5	0.26
Indeno(1,2,3-cd)pyrene	170	0.035	2.5	0.031 U	4.2	0.031 U
Naphthalene	4,100	0.4	33	0.13	5.3	7.8
Phenanthrene +	61,000	0.6	43	0.12	21	0.52
Pyrene	61,000	0.52	26	0.088	22	0.21
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	1	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	NA	NA	NA	NA	NA
Arsenic	61	NA	NA	NA	NA	NA
Barium	14,000	NA	NA	NA	NA	NA
Beryllium	410	NA	NA	NA	NA	NA
Cadmium	200	NA	NA	NA	NA	NA
Chromium	4,100	NA	NA	NA	NA	NA
Copper	8,200	NA	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA	NA
Mercury	61	NA	NA	NA	NA	NA
Nickel	4,100	NA	NA	NA	NA	NA
Selenium	1,000	NA	NA	NA	NA	NA
Silver	1,000	NA	NA	NA	NA	NA
Thallium	160	NA	NA	NA	NA	NA
Zinc	61,000	NA	NA	NA	NA	NA
Total Cyanide	4,100	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) NA - Not analyzed.
(7) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB49-001 8 - 10	SB49B-001 14 - 16	SB50-002 14 - 16	SB50-003 20 - 22	SB51-001 10 -12
TCL Volatiles (mg/kg)						
Acetone	200,000	0.029 U	0.031 U	1.9 U	0.037 UJ	0.03 U
Benzene	2,300	0.0059 U	0.0063 U	2.9	0.0073 UJ	3.7
Bromodichloromethane	2,000	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Bromoform	16,000	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Bromomethane	1,000	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
2-Butanone	--	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Carbon Disulfide	20,000	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Carbon Tetrachloride	410	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Chlorobenzene	4,100	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Chloroethane +	82,000	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Chloroform	2,000	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Chloromethane +	820	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Dibromochloromethane	41,000	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1-Dichloroethane	200,000	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,2-Dichloroethane	1,400	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1-Dichloroethene	1,800	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
cis-1,2-Dichloroethene	20,000	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
trans-1,2-Dichloroethene	41,000	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,2-Dichloropropane	1,800	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
cis-1,3-Dichloropropene	1,200	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
trans-1,3-Dichloropropene	1,200	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Ethylbenzene	20,000	0.0059 U	0.0063 U	30	0.56	5.8
2-Hexanone +	8,200	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
4-Methyl-2-Pentanone	--	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Methylene Chloride	12,000	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Methyl tert-butyl ether	2,000	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Styrene	41,000	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1,2,2-Tetrachloroethane +	12,000	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Tetrachloroethene	2,400	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Toluene	410,000	0.0059 U	0.0063 U	0.38 U	0.018 J	0.0094
1,1,1-Trichloroethane	--	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1,2-Trichloroethane	8,200	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Trichloroethene	1,200	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Vinyl Chloride	170	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
m,p-Xylene*	410,000	NA	NA	NA	NA	NA
o-Xylene*	410,000	NA	NA	NA	NA	NA
Xylenes, Total	410,000	0.012 U	0.013 U	21	2.1 J	3.9

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) J - Indicates an estimated value.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB49-001 8 - 10	SB49B-001 14 - 16	SB50-002 14 - 16	SB50-003 20 - 22	SB51-001 10 -12
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Bis(2-chloroethyl)ether	75	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Bis(2-ethylhexyl)phthalate	4,100	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Bromophenyl phenyl ether	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Butyl benzyl phthalate	410,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Carbazole	6,200	0.42 U	0.41 U	0.46 U	0.45 U	4.8
4-Chloro-3-methylphenol +	41,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Chloroaniline	820	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Chloronaphthalene	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Chlorophenol	10,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Dibenzofuran +	820	0.42 U	0.41 U	1.2	0.45 U	3.4
1,2-Dichlorobenzene	18,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
1,3-Dichlorobenzene +	180	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
1,4-Dichlorobenzene	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
3,3´-Dichlorobenzidine	280	0.84 U	0.82 U	0.91 U	0.89 U	0.87 U
2,4-Dichlorophenol	610	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Diethyl phthalate	1,000,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Dimethyl phthalate +	1,000,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Di-n-butyl phthalate	200,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2,4-Dimethylphenol	41,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4,6-Dinitro-2-methylphenol	--	2 U	2 U	2.2 U	2.2 U	2.1 U
2,4-Dinitrophenol	410	2 U	2 U	2.2 U	2.2 U	2.1 U
2,4-Dinitrotoluene	180	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
2,6-Dinitrotoluene	180	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
Di-n-octyl phthalate	4,100	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachlorobenzene	78	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachlorobutadiene +	41	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachlorocyclopentadiene	14,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachloroethane	2,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Isophorone	410,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Methylnaphthalene +	820	0.42 U	0.41 U	7.5	0.45 U	52
2-Methylphenol	100,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Methylphenol +	1,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Nitroaniline	--	2 U	2 U	2.2 U	2.2 U	2.1 U
3-Nitroaniline	--	2 U	2 U	2.2 U	2.2 U	2.1 U
4-Nitroaniline	--	2 U	2 U	2.2 U	2.2 U	2.1 U
Nitrobenzene	1,000	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
2-Nitrophenol	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Nitrophenol	--	2 U	2 U	2.2 U	2.2 U	2.1 U
N-Nitrosodi-n-propylamine	18	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
N-Nitrosodiphenylamine	25,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2, 2'-Oxybis(1-Chloropropane)	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Pentachlorophenol	520	2 U	2 U	2.2 U	2.2 U	2.1 U
Phenol	120,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
1,2,4-Trichlorobenzene	2,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2,4,5-Trichlorophenol	200,000	0.84 U	0.82 U	0.91 U	0.89 U	0.87 U
2,4,6-Trichlorophenol	11,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB49-001 8 - 10	SB49B-001 14 - 16	SB50-002 14 - 16	SB50-003 20 - 22	SB51-001 10 -12
PAHs (mg/kg)						
Acenaphthene	120,000	0.32	0.031 U	3	0.086	28
Acenaphthylene +	61,000	0.19	0.031 U	0.44	0.034 U	4.1
Anthracene	610,000	0.44	0.031 U	2.6	0.18	20
Benzo(a)anthracene	170	1	0.035	3.9	0.42	17
Benzo(b)fluoranthene	170	0.78	0.031 U	2.4	0.27	8.2
Benzo(k)fluoranthene	1,700	0.74	0.032	3.8	0.38	7.4
Benzo(g,h,i)perylene +	61,000	0.68	0.031 U	0.74	0.077	8
Benzo(a)pyrene	17	1	0.041	4.4	0.46	16
Chrysene	17,000	1	0.053	3.1	0.42	17
Dibenzo(a,h)anthracene	17	0.11	0.031 U	0.24	0.037	1.4
Fluoranthene	82,000	1.9	0.058	7.2	0.66	36
Fluorene	82,000	0.24	0.031 U	2.2	0.098	21
Indeno(1,2,3-cd)pyrene	170	0.55	0.031 U	0.89	0.098	6.2
Naphthalene	4,100	0.2	0.041	44	0.52	67
Phenanthrene +	61,000	1.3	0.079	8.7	0.46	78
Pyrene	61,000	2.1	0.078	6.4	0.55	50
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	1	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	NA	NA	NA	NA	NA
Arsenic	61	NA	NA	NA	NA	NA
Barium	14,000	NA	NA	NA	NA	NA
Beryllium	410	NA	NA	NA	NA	NA
Cadmium	200	NA	NA	NA	NA	NA
Chromium	4,100	NA	NA	NA	NA	NA
Copper	8,200	NA	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA	NA
Mercury	61	NA	NA	NA	NA	NA
Nickel	4,100	NA	NA	NA	NA	NA
Selenium	1,000	NA	NA	NA	NA	NA
Silver	1,000	NA	NA	NA	NA	NA
Thallium	160	NA	NA	NA	NA	NA
Zinc	61,000	NA	NA	NA	NA	NA
Total Cyanide	4,100	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) NA - Not analyzed.
(7) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20
TCL Volatiles (mg/kg)							
Acetone	200,000	0.027 U	1.4 U	0.027 UJ	0.036 U	0.1	0.031 UJ
Benzene	2,300	0.0055 U	2.6	0.0089 J	0.0086	0.21	0.0062 UJ
Bromodichloromethane	2,000	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Bromoform	16,000	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Bromomethane	1,000	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
2-Butanone	--	0.011 U	0.55 U	0.011 UJ	0.015 U	0.023	0.012 UJ
Carbon Disulfide	20,000	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Carbon Tetrachloride	410	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Chlorobenzene	4,100	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Chloroethane +	82,000	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
Chloroform	2,000	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Chloromethane +	820	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Dibromochloromethane	41,000	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1-Dichloroethane	200,000	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,2-Dichloroethane	1,400	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1-Dichloroethene	1,800	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
cis-1,2-Dichloroethene	20,000	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
trans-1,2-Dichloroethene	41,000	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,2-Dichloropropane	1,800	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
cis-1,3-Dichloropropene	1,200	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
trans-1,3-Dichloropropene	1,200	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Ethylbenzene	20,000	0.0055 U	11	0.043 J	0.0073 U	1.2	0.0062 UJ
2-Hexanone +	8,200	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
4-Methyl-2-Pentanone	--	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
Methylene Chloride	12,000	0.011 U	0.55 U	0.011 UJ	0.018	0.035	0.026 J
Methyl tert-butyl ether	2,000	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Styrene	41,000	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1,2,2-Tetrachloroethane +	12,000	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Tetrachloroethene	2,400	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Toluene	410,000	0.0055 U	0.7	0.0097 J	0.0073 U	0.013	0.0062 UJ
1,1,1-Trichloroethane	--	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1,2-Trichloroethane	8,200	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Trichloroethene	1,200	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Vinyl Chloride	170	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
m,p-Xylene*	410,000	NA	NA	NA	NA	NA	NA
o-Xylene*	410,000	NA	NA	NA	NA	NA	NA
Xylenes, Total	410,000	0.024	9.8	0.055 J	0.015 U	1.7	0.012 UJ

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) J - Indicates an estimated value.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20
TCL Semivolatiles (mg/kg)							
Bis(2-chloroethoxy)methane	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Bis(2-chloroethyl)ether	75	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Bis(2-ethylhexyl)phthalate	4,100	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Bromophenyl phenyl ether	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Butyl benzyl phthalate	410,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Carbazole	6,200	0.41 U	0.4 U	0.39 U	0.41 U	5.1	0.4 U
4-Chloro-3-methylphenol +	41,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Chloroaniline	820	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Chloronaphthalene	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Chlorophenol	10,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Chlorophenyl phenyl ether	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Dibenzofuran +	820	0.82	0.91	0.39 U	0.41 U	4.9	0.4 U
1,2-Dichlorobenzene	18,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
1,3-Dichlorobenzene +	180	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
1,4-Dichlorobenzene	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
3,3´-Dichlorobenzidine	280	0.82 U	0.8 U	0.77 U	0.82 U	0.85 U	0.8 U
2,4-Dichlorophenol	610	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Diethyl phthalate	1,000,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Dimethyl phthalate +	1,000,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Di-n-butyl phthalate	200,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2,4-Dimethylphenol	41,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4,6-Dinitro-2-methylphenol	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
2,4-Dinitrophenol	410	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
2,4-Dinitrotoluene	180	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
2,6-Dinitrotoluene	180	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
Di-n-octyl phthalate	4,100	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachlorobenzene	78	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachlorobutadiene +	41	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachlorocyclopentadiene	14,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachloroethane	2,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Isophorone	410,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Methylnaphthalene +	820	4.5	19	1.8	0.41 U	37	0.4 U
2-Methylphenol	100,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Methylphenol +	1,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
3-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
4-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
Nitrobenzene	1,000	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
2-Nitrophenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Nitrophenol	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
N-Nitrosodi-n-propylamine	18	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
N-Nitrosodiphenylamine	25,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Pentachlorophenol	520	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
Phenol	120,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
1,2,4-Trichlorobenzene	2,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2,4,5-Trichlorophenol	200,000	0.82 U	0.8 U	0.77 U	0.82 U	0.85 U	0.8 U
2,4,6-Trichlorophenol	11,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20
PAHs (mg/kg)							
Acenaphthene	120,000	2.4	3.7	0.19	2	16	0.11
Acenaphthylene +	61,000	0.47	1	0.066	1.6	2.4	0.046
Anthracene	610,000	2.2	2.2	0.12	2.6	16	0.12
Benzo(a)anthracene	170	2.3	1.8	0.091	5.2	14	0.12
Benzo(b)fluoranthene	170	1.2	0.71	0.038	1.4	6.4	0.054
Benzo(k)fluoranthene	1,700	1.1	0.31	0.035	1.8	6.5	0.076
Benzo(g,h,i)perylene +	61,000	0.57	0.18	0.029 U	1	1.6	0.042
Benzo(a)pyrene	17	1.7	1.3	0.07	4.8	11	0.099
Chrysene	17,000	2	1.7	0.096	6.8	15	0.14
Dibenzo(a,h)anthracene	17	0.11	0.1	0.029 U	0.5	1.2	0.03 U
Fluoranthene	82,000	3.7	2.7	0.15	7.8	24	0.22
Fluorene	82,000	2.5	3.6	0.2	4	19	0.13
Indeno(1,2,3-cd)pyrene	170	0.59	0.35	0.029 U	0.92	1.8	0.031
Naphthalene	4,100	6.1	22	2.3	1.5	41	0.24
Phenanthrene +	61,000	7.6	11	0.65	14	57	0.48
Pyrene	61,000	4.2	4.5	0.22	12	27	0.27
PCBs (mg/kg)							
Aroclor 1016	--	NA	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA	NA
Total PCBs	1	NA	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)							
Antimony	82	NA	NA	NA	NA	NA	NA
Arsenic	61	NA	NA	NA	NA	NA	NA
Barium	14,000	NA	NA	NA	NA	NA	NA
Beryllium	410	NA	NA	NA	NA	NA	NA
Cadmium	200	NA	NA	NA	NA	NA	NA
Chromium	4,100	NA	NA	NA	NA	NA	NA
Copper	8,200	NA	NA	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA	NA	NA
Mercury	61	NA	NA	NA	NA	NA	NA
Nickel	4,100	NA	NA	NA	NA	NA	NA
Selenium	1,000	NA	NA	NA	NA	NA	NA
Silver	1,000	NA	NA	NA	NA	NA	NA
Thallium	160	NA	NA	NA	NA	NA	NA
Zinc	61,000	NA	NA	NA	NA	NA	NA
Total Cyanide	4,100	NA	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) NA - Not analyzed.
(7) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB54-001 8 - 10	SB54-002 14 - 16	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20
TCL Volatiles (mg/kg)						
Acetone	200,000	3.2 U	0.027 U	0.026	0.032 U	0.028 U
Benzene	2,300	5.7	0.0054 U	0.064	0.0064 U	0.0056 U
Bromodichloromethane	2,000	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Bromoform	16,000	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Bromomethane	1,000	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
2-Butanone	--	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Carbon Disulfide	20,000	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Carbon Tetrachloride	410	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Chlorobenzene	4,100	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Chloroethane +	82,000	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Chloroform	2,000	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Chloromethane +	820	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Dibromochloromethane	41,000	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,1-Dichloroethane	200,000	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,2-Dichloroethane	1,400	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,1-Dichloroethene	1,800	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
cis-1,2-Dichloroethene	20,000	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
trans-1,2-Dichloroethene	41,000	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,2-Dichloropropane	1,800	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
cis-1,3-Dichloropropene	1,200	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
trans-1,3-Dichloropropene	1,200	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Ethylbenzene	20,000	25	0.0054 U	0.11	0.0064 U	0.0056 U
2-Hexanone +	8,200	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
4-Methyl-2-Pentanone	--	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Methylene Chloride	12,000	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Methyl tert-butyl ether	2,000	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Styrene	41,000	0.64 U	0.0054 U	0.016	0.0064 U	0.0056 U
1,1,2,2-Tetrachloroethane +	12,000	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Tetrachloroethene	2,400	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Toluene	410,000	0.84	0.0054 U	0.066	0.0064 U	0.0056 U
1,1,1-Trichloroethane	--	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,1,2-Trichloroethane	8,200	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Trichloroethene	1,200	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Vinyl Chloride	170	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
m,p-Xylene*	410,000	NA	NA	NA	NA	NA
o-Xylene*	410,000	NA	NA	NA	NA	NA
Xylenes, Total	410,000	8.7	0.011 U	0.18	0.013 U	0.011 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB54-001 8 - 10	SB54-002 14 - 16	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Bis(2-chloroethyl)ether	75	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Bis(2-ethylhexyl)phthalate	4,100	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Bromophenyl phenyl ether	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Butyl benzyl phthalate	410,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Carbazole	6,200	0.51	0.4 U	0.39 U	0.4 U	0.4 U
4-Chloro-3-methylphenol +	41,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Chloroaniline	820	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Chloronaphthalene	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Chlorophenol	10,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Dibenzofuran +	820	1.9	0.4 U	0.39 U	0.4 U	0.4 U
1,2-Dichlorobenzene	18,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
1,3-Dichlorobenzene +	180	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
1,4-Dichlorobenzene	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
3,3´-Dichlorobenzidine	280	0.84 U	0.79 U	0.79 U	0.81 U	0.81 U
2,4-Dichlorophenol	610	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Diethyl phthalate	1,000,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Dimethyl phthalate +	1,000,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Di-n-butyl phthalate	200,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2,4-Dimethylphenol	41,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4,6-Dinitro-2-methylphenol	--	2 U	1.9 U	1.9 U	2 U	2 U
2,4-Dinitrophenol	410	2 U	1.9 U	1.9 U	2 U	2 U
2,4-Dinitrotoluene	180	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
2,6-Dinitrotoluene	180	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
Di-n-octyl phthalate	4,100	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachlorobenzene	78	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachlorobutadiene +	41	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachlorocyclopentadiene	14,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachloroethane	2,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Isophorone	410,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Methylnaphthalene +	820	45	0.4 U	0.8	0.4 U	0.4 U
2-Methylphenol	100,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Methylphenol +	1,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2 U
3-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2 U
4-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2 U
Nitrobenzene	1,000	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
2-Nitrophenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Nitrophenol	--	2 U	1.9 U	1.9 U	2 U	2 U
N-Nitrosodi-n-propylamine	18	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
N-Nitrosodiphenylamine	25,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Pentachlorophenol	520	2 U	1.9 U	1.9 U	2 U	2 U
Phenol	120,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
1,2,4-Trichlorobenzene	2,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2,4,5-Trichlorophenol	200,000	0.84 U	0.79 U	0.79 U	0.81 U	0.81 U
2,4,6-Trichlorophenol	11,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB54-001 8 - 10	SB54-002 14 - 16	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20
PAHs (mg/kg)						
Acenaphthene	120,000	12	0.046	0.078	0.03 U	0.031 U
Acenaphthylene +	61,000	4	0.03 U	0.089	0.03 U	0.031 U
Anthracene	610,000	7.4	0.046	0.099	0.03 U	0.031 U
Benzo(a)anthracene	170	5.4	0.037	0.098	0.03 U	0.031 U
Benzo(b)fluoranthene	170	2.6	0.03 U	0.054	0.03 U	0.031 U
Benzo(k)fluoranthene	1,700	2.1	0.03 U	0.05	0.03 U	0.031 U
Benzo(g,h,i)perylene +	61,000	1.8	0.03 U	0.033	0.03 U	0.031 U
Benzo(a)pyrene	17	4.8	0.034	0.092	0.03 U	0.031 U
Chrysene	17,000	5.3	0.045	0.1	0.03 U	0.031 U
Dibenzo(a,h)anthracene	17	0.6	0.03 U	0.029 U	0.03 U	0.031 U
Fluoranthene	82,000	9.6	0.062	0.16	0.03 U	0.031 U
Fluorene	82,000	9.3	0.049	0.15	0.03 U	0.031 U
Indeno(1,2,3-cd)pyrene	170	1.6	0.03 U	0.029 U	0.03 U	0.031 U
Naphthalene	4,100	110	0.26	0.95	0.03 U	0.031 U
Phenanthrene +	61,000	27	0.15	0.58	0.067	0.037
Pyrene	61,000	14	0.095	0.31	0.03 U	0.031 U
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	1	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	NA	NA	NA	NA	NA
Arsenic	61	NA	NA	NA	NA	NA
Barium	14,000	NA	NA	NA	NA	NA
Beryllium	410	NA	NA	NA	NA	NA
Cadmium	200	NA	NA	NA	NA	NA
Chromium	4,100	NA	NA	NA	NA	NA
Copper	8,200	NA	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA	NA
Mercury	61	NA	NA	NA	NA	NA
Nickel	4,100	NA	NA	NA	NA	NA
Selenium	1,000	NA	NA	NA	NA	NA
Silver	1,000	NA	NA	NA	NA	NA
Thallium	160	NA	NA	NA	NA	NA
Zinc	61,000	NA	NA	NA	NA	NA
Total Cyanide	4,100	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) NA - Not analyzed.
(7) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB57-002 16 - 18	SB58-001 12 - 14	SB58-002 16 - 18	SB59-001 6 - 8	SB59-002 16 - 18
TCL Volatiles (mg/kg)						
Acetone	200,000	0.028 U	0.047 U	0.031 UJ	0.028 U	0.033 U
Benzene	2,300	0.0057 U	0.0094 U	0.0061 UJ	0.031	0.0067 U
Bromodichloromethane	2,000	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Bromoform	16,000	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Bromomethane	1,000	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
2-Butanone	--	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
Carbon Disulfide	20,000	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Carbon Tetrachloride	410	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Chlorobenzene	4,100	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Chloroethane +	82,000	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
Chloroform	2,000	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Chloromethane +	820	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Dibromochloromethane	41,000	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1-Dichloroethane	200,000	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,2-Dichloroethane	1,400	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1-Dichloroethene	1,800	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
cis-1,2-Dichloroethene	20,000	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
trans-1,2-Dichloroethene	41,000	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,2-Dichloropropane	1,800	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
cis-1,3-Dichloropropene	1,200	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
trans-1,3-Dichloropropene	1,200	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Ethylbenzene	20,000	0.0057 U	0.0094 U	0.0061 UJ	0.071	0.0067 U
2-Hexanone +	8,200	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
4-Methyl-2-Pentanone	--	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
Methylene Chloride	12,000	0.011 U	0.019 U	0.012 UJ	0.017	0.016
Methyl tert-butyl ether	2,000	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Styrene	41,000	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1,2,2-Tetrachloroethane +	12,000	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Tetrachloroethene	2,400	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Toluene	410,000	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1,1-Trichloroethane	--	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1,2-Trichloroethane	8,200	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Trichloroethene	1,200	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Vinyl Chloride	170	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
m,p-Xylene*	410,000	NA	NA	NA	NA	NA
o-Xylene*	410,000	NA	NA	NA	NA	NA
Xylenes, Total	410,000	0.011 U	0.019 U	0.012 UJ	0.044	0.013 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) J - Indicates an estimated value.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB57-002 16 - 18	SB58-001 12 - 14	SB58-002 16 - 18	SB59-001 6 - 8	SB59-002 16 - 18
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Bis(2-chloroethyl)ether	75	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Bis(2-ethylhexyl)phthalate	4,100	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Bromophenyl phenyl ether	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Butyl benzyl phthalate	410,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Carbazole	6,200	0.39 U	6.8	0.41 U	0.39 U	0.38 U
4-Chloro-3-methylphenol +	41,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Chloroaniline	820	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2-Chloronaphthalene	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2-Chlorophenol	10,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Dibenzofuran +	820	0.39 U	4.6	0.41 U	0.39 U	0.38 U
1,2-Dichlorobenzene	18,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
1,3-Dichlorobenzene +	180	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
1,4-Dichlorobenzene	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
3,3´-Dichlorobenzidine	280	0.79 U	1.1 U	0.82 U	0.78 U	0.75 U
2,4-Dichlorophenol	610	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Diethyl phthalate	1,000,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Dimethyl phthalate +	1,000,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Di-n-butyl phthalate	200,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2,4-Dimethylphenol	41,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4,6-Dinitro-2-methylphenol	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
2,4-Dinitrophenol	410	1.9 U	2.6 U	2 U	1.9 U	1.8 U
2,4-Dinitrotoluene	180	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
2,6-Dinitrotoluene	180	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
Di-n-octyl phthalate	4,100	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachlorobenzene	78	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachlorobutadiene +	41	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachlorocyclopentadiene	14,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachloroethane	2,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Isophorone	410,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2-Methylnaphthalene +	820	0.39 U	3.8	0.41 U	0.39 U	0.38 U
2-Methylphenol	100,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Methylphenol +	1,000	0.39 U	2.2	0.41 U	0.39 U	0.38 U
2-Nitroaniline	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
3-Nitroaniline	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
4-Nitroaniline	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
Nitrobenzene	1,000	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
2-Nitrophenol	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Nitrophenol	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
N-Nitrosodi-n-propylamine	18	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
N-Nitrosodiphenylamine	25,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Pentachlorophenol	520	1.9 U	2.6 U	2 U	1.9 U	1.8 U
Phenol	120,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
1,2,4-Trichlorobenzene	2,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2,4,5-Trichlorophenol	200,000	0.79 U	1.1 U	0.82 U	0.78 U	0.75 U
2,4,6-Trichlorophenol	11,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 3 (Continued)
Tier 1 Screening: Soil Ingestion Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB57-002 16 - 18	SB58-001 12 - 14	SB58-002 16 - 18	SB59-001 6 - 8	SB59-002 16 - 18
PAHs (mg/kg)						
Acenaphthene	120,000	0.03 U	4.3	0.072	0.029 U	0.028 U
Acenaphthylene +	61,000	0.03 U	0.45	0.031 U	0.029 U	0.028 U
Anthracene	610,000	0.03 U	11	0.079	0.029 U	0.028 U
Benzo(a)anthracene	170	0.03 U	14	0.065	0.029 U	0.028 U
Benzo(b)fluoranthene	170	0.03 U	8.5	0.038	0.029 U	0.028 U
Benzo(k)fluoranthene	1,700	0.03 U	9.8	0.038	0.029 U	0.028 U
Benzo(g,h,i)perylene +	61,000	0.03 U	3.2	0.031 U	0.029 U	0.028 U
Benzo(a)pyrene	17	0.03 U	12	0.059	0.029 U	0.028 U
Chrysene	17,000	0.037	12	0.061	0.029	0.028 U
Dibenzo(a,h)anthracene	17	0.03 U	1.6	0.031 U	0.029 U	0.028 U
Fluoranthene	82,000	0.056	27	0.14	0.029	0.028 U
Fluorene	82,000	0.03 U	6.2	0.088	0.029 U	0.028 U
Indeno(1,2,3-cd)pyrene	170	0.03 U	3.8	0.031 U	0.029 U	0.028 U
Naphthalene	4,100	0.054	4	0.39	0.087	0.028 U
Phenanthrene +	61,000	0.11	27	0.24	0.089	0.075
Pyrene	61,000	0.057	23	0.11	0.05	0.028 U
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	1	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	82	NA	NA	NA	NA	NA
Arsenic	61	NA	NA	NA	NA	NA
Barium	14,000	NA	NA	NA	NA	NA
Beryllium	410	NA	NA	NA	NA	NA
Cadmium	200	NA	NA	NA	NA	NA
Chromium	4,100	NA	NA	NA	NA	NA
Copper	8,200	NA	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA	NA
Mercury	61	NA	NA	NA	NA	NA
Nickel	4,100	NA	NA	NA	NA	NA
Selenium	1,000	NA	NA	NA	NA	NA
Silver	1,000	NA	NA	NA	NA	NA
Thallium	160	NA	NA	NA	NA	NA
Zinc	61,000	NA	NA	NA	NA	NA
Total Cyanide	4,100	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) NA - Not analyzed.
(7) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-001 1-2	SB01-002 8-10	SP02-001 2-3	SP02-002 3-4	SP03-001 2-3
TCL Volatiles (mg/kg)						
Acetone	100,000	0.099	0.041 U	0.17	0.091	0.051
Benzene	0.8	0.0097 U	0.0082 U	0.055	0.015	0.0072 U
Bromodichloromethane	3,000	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Bromoform	53	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Bromomethane	10	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
2-Butanone	--	0.019 U	0.016 U	0.024 U	0.02	0.014 U
Carbon Disulfide	720	0.0097 U	0.0082 U	0.023	0.0081 U	0.0072 U
Carbon Tetrachloride	0.3	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Chlorobenzene	130	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Chloroethane +	1,500	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
Chloroform	0.3	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Chloromethane +	110	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Dibromochloromethane	1,300	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1-Dichloroethane	1,300	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,2-Dichloroethane	0.4	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1-Dichloroethene	1,500	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
cis-1,2-Dichloroethene	1,200	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
trans-1,2-Dichloroethene	3,100	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,2-Dichloropropane	15	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
cis-1,3-Dichloropropene	1.1	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
trans-1,3-Dichloropropene	1.1	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Ethylbenzene	400	0.0097 U	0.0082 U	0.044	0.049	0.0072 U
2-Hexanone +	70	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
4-Methyl-2-Pentanone	--	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
Methylene Chloride	13	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1,2,2-Tetrachloroethane +	2,000	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Tetrachloroethene	11	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Toluene	650	0.0097 U	0.0082 U	0.036	0.0081 U	0.0072 U
1,1,1-Trichloroethane	1,200	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1,2-Trichloroethane	1,800	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Trichloroethene	5	0.0097 U	0.0082 U	0.021	0.0081 U	0.0072 U
Vinyl Chloride	0.28	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
m,p-Xylene*	320	0.0097 U	0.0082 U	0.028	0.0081 U	0.0072 U
o-Xylene*	320	0.0097 U	0.0082 U	0.025	0.012	0.0096
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-001 1-2	SB01-002 8-10	SP02-001 2-3	SP02-002 3-4	SP03-001 2-3
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Bis(2-chloroethyl)ether **	0.2	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Bis(2-ethylhexyl)phthalate	31,000	0.37 U	0.45	0.37 U	0.38 U	0.49
4-Bromophenyl phenyl ether	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Butyl benzyl phthalate	930	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Carbazole	--	0.37 U	0.38 U	0.52	0.47	2.9
4-Chloro-3-methylphenol	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4-Chloroaniline	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Chloronaphthalene	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Chlorophenol	53,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4-Chlorophenyl phenyl ether	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Dibenzofuran	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,2-Dichlorobenzene	560	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,3-Dichlorobenzene +	570	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,4-Dichlorobenzene	11,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
3,3´-Dichlorobenzidine	--	0.74 U	0.76 U	0.75 U	0.75 U	0.71 U
2,4-Dichlorophenol	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Diethyl phthalate	2,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Dimethyl phthalate +	1,300	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Di-n-butyl phthalate	2,300	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2,4-Dimethylphenol	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4,6-Dinitro-2-methylphenol	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
2,4-Dinitrophenol	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
2,4-Dinitrotoluene	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2,6-Dinitrotoluene	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Di-n-octyl phthalate	10,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachlorobenzene	1	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachlorobutadiene +	1,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachlorocyclopentadiene	10	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachloroethane	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Isophorone	4,600	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Methylnaphthalene	--	0.37 U	0.38 U	0.85	0.38 U	0.57
2-Methylphenol	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4-Methylphenol	--	0.37 U	0.38 U	0.56	0.38 U	0.36 U
2-Nitroaniline +	73	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
3-Nitroaniline	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
4-Nitroaniline	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
Nitrobenzene	92	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Nitrophenol	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
4-Nitrophenol	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
N-Nitrosodi-n-propylamine	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
N-Nitrosodiphenylamine	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.016 U	0.016 U	0.015 U
Pentachlorophenol	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
Phenol	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,2,4-Trichlorobenzene	3,200	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2,4,5-Trichlorophenol	--	0.74 U	0.76 U	0.75 U	0.75 U	0.71 U
2,4,6-Trichlorophenol	200	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-001 1-2	SB01-002 8-10	SP02-001 2-3	SP02-002 3-4	SP03-001 2-3
PAHs (mg/kg)						
Acenaphthene	--	0.037	0.029 U	0.45	0.19	0.69
Acenaphthylene	--	0.032	0.029 U	1.2	0.13	0.32
Anthracene	--	0.27	0.16	1.5	0.3	0.75
Benzo(a)anthracene	--	0.34	0.34	3.5	0.43	2.5
Benzo(b)fluoranthene	--	0.44	0.32	2.2	0.36	1.8
Benzo(k)fluoranthene	--	0.44	0.26	2.7	0.39	1.6
Benzo(g,h,i)perylene	--	0.31	0.23	2	0.48	0.94
Benzo(a)pyrene	--	0.32	0.21	3.1	0.52	2.3
Chrysene	--	0.71	0.67	4.1	0.62	2.5
Dibenzo(a,h)anthracene	--	0.16	0.099	0.81	0.13	0.39
Fluoranthene	--	1.4	1.1	6.2	0.85	4.1
Fluorene	--	0.067	0.029 U	0.63	0.21	0.65
Indeno(1,2,3-cd)pyrene	--	0.31	0.2	2	0.35	0.93
Naphthalene	170	0.36	0.044	0.84	0.28	0.75
Phenanthrene	--	0.64	0.35	3.8	1	3.7
Pyrene	--	1.5	1.2	8.6	1.1	4.5
PCBs (mg/kg)						
Aroclor 1016	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1221	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1232	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1242	--	0.09 U	0.093 U	0.094	0.09 U	0.4
Aroclor 1248	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1254	--	0.18 U	0.19 U	0.18 U	0.18 U	0.33
Aroclor 1260	--	0.18 U	0.19 U	0.18 U	0.18 U	0.16 U
Total PCBs	--	0.810 U	0.845 U	0.814	0.810 U	1.226
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	0.97 UJ	1 UJ	1 UJ	1 UJ	1.1 UJ
Arsenic	750	8.1	9.2 J	6.5	2.5 J	7.2
Barium	690,000	61 J	47 J	82 J	19 J	68 J
Beryllium	1,300	0.75	0.87	1.1	0.63	1
Cadmium	1,800	0.91	0.54	0.79	0.52 U	1.1
Chromium	270	14 J	20 J	15 J	6.9 J	20 J
Copper	--	66 J	32 J	43 J	8.9 J	110 J
Lead	--	380 J	41	130 J	31	150 J
Mercury	10	0.35	0.28	0.15	0.035	0.076
Nickel	13,000	17 J	33 J	20 J	5.5 J	23 J
Selenium	--	0.97 U	1 U	1 U	1 U	1.1 U
Silver	--	0.97 U	1 U	1 U	1 U	1.1 U
Thallium	--	0.97 U	4.2	1	1 U	1.1 U
Zinc	--	160 J	70 J	90 J	23 J	290 J
Total Cyanide	--	0.31 U	0.27 U	0.26 U	0.26 U	0.23 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) J - Indicates an estimated value.
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP03-002 4-5	SB04-001 5-7	SP05-001 2-3	SP05-002 9-10	SP06-001 2-3
TCL Volatiles (mg/kg)						
Acetone	100,000	0.32	0.061 U	0.067	0.061	0.073
Benzene	0.8	0.017 U	0.012 U	0.015	0.012 U	0.079
Bromodichloromethane	3,000	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Bromoform	53	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Bromomethane	10	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
2-Butanone	--	0.072	0.025 U	0.024 U	0.023 U	0.025 U
Carbon Disulfide	720	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Carbon Tetrachloride	0.3	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Chlorobenzene	130	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Chloroethane +	1,500	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
Chloroform	0.3	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Chloromethane +	110	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Dibromochloromethane	1,300	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1-Dichloroethane	1,300	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,2-Dichloroethane	0.4	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1-Dichloroethene	1,500	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
cis-1,2-Dichloroethene	1,200	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
trans-1,2-Dichloroethene	3,100	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,2-Dichloropropane	15	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
cis-1,3-Dichloropropene	1.1	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
trans-1,3-Dichloropropene	1.1	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Ethylbenzene	400	0.017 U	0.012 U	0.012 U	0.012 U	0.15
2-Hexanone +	70	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
4-Methyl-2-Pentanone	--	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
Methylene Chloride	13	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1,2,2-Tetrachloroethane +	2,000	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Tetrachloroethene	11	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Toluene	650	0.017 U	0.012 U	0.012 U	0.012 U	0.041
1,1,1-Trichloroethane	1,200	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1,2-Trichloroethane	1,800	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Trichloroethene	5	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Vinyl Chloride	0.28	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
m,p-Xylene*	320	0.017 U	0.012 U	0.012 U	0.012 U	0.11
o-Xylene*	320	0.017 U	0.012 U	0.012 U	0.012 U	0.12
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP03-002 4-5	SB04-001 5-7	SP05-001 2-3	SP05-002 9-10	SP06-001 2-3
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Bis(2-chloroethyl)ether **	0.2	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Bis(2-ethylhexyl)phthalate	31,000	0.44 U	1.1	0.38 U	0.39 U	0.38 U
4-Bromophenyl phenyl ether	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Butyl benzyl phthalate	930	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Carbazole	--	0.44 U	0.41 U	0.67	0.39 U	2.2
4-Chloro-3-methylphenol	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4-Chloroaniline	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Chloronaphthalene	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Chlorophenol	53,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4-Chlorophenyl phenyl ether	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Dibenzofuran	--	0.44 U	0.41 U	0.38 U	0.39 U	0.4
1,2-Dichlorobenzene	560	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
1,3-Dichlorobenzene +	570	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
1,4-Dichlorobenzene	11,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
3,3´-Dichlorobenzidine	--	0.89 U	0.82 U	0.76 U	0.78 U	0.76 U
2,4-Dichlorophenol	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Diethyl phthalate	2,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Dimethyl phthalate +	1,300	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Di-n-butyl phthalate	2,300	0.44 U	0.45	0.38 U	0.39 U	0.38 U
2,4-Dimethylphenol	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4,6-Dinitro-2-methylphenol	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
2,4-Dinitrophenol	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
2,4-Dinitrotoluene	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2,6-Dinitrotoluene	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Di-n-octyl phthalate	10,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachlorobenzene	1	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachlorobutadiene +	1,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachlorocyclopentadiene	10	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachloroethane	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Isophorone	4,600	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Methylnaphthalene	--	0.44 U	0.41 U	0.54	0.39 U	2.7
2-Methylphenol	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4-Methylphenol	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Nitroaniline +	73	2.1 U	2 U	1.8 U	1.9 U	1.8 U
3-Nitroaniline	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
4-Nitroaniline	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
Nitrobenzene	92	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Nitrophenol	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
4-Nitrophenol	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
N-Nitrosodi-n-propylamine	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
N-Nitrosodiphenylamine	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	--	0.019 U	0.017 U	0.016 U	0.017 U	0.016 U
Pentachlorophenol	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
Phenol	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
1,2,4-Trichlorobenzene	3,200	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2,4,5-Trichlorophenol	--	0.89 U	0.82 U	0.76 U	0.78 U	0.76 U
2,4,6-Trichlorophenol	200	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP03-002 4-5	SB04-001 5-7	SP05-001 2-3	SP05-002 9-10	SP06-001 2-3
PAHs (mg/kg)						
Acenaphthene	--	0.034 U	0.17	0.84	0.03 U	1.4
Acenaphthylene	--	0.034 U	0.13	1.3	0.03 U	0.59
Anthracene	--	0.034 U	0.7	1.1	0.03 U	1.7
Benzo(a)anthracene	--	0.034 U	0.78	3	0.03 U	3.3
Benzo(b)fluoranthene	--	0.034 U	1.1	1.9	0.03 U	2
Benzo(k)fluoranthene	--	0.034 U	0.91	2.5	0.03 U	2.4
Benzo(g,h,i)perylene	--	0.034 U	1.2	1.2	0.03 U	1.4
Benzo(a)pyrene	--	0.034 U	0.75	3.3	0.03 U	3.3
Chrysene	--	0.034 U	1.7	3.5	0.03 U	4.2
Dibenzo(a,h)anthracene	--	0.034 U	0.41	0.55	0.03 U	0.71
Fluoranthene	--	0.034 U	2.4	4.3	0.03 U	7.2
Fluorene	--	0.034 U	0.31	0.77	0.03 U	1.5
Indeno(1,2,3-cd)pyrene	--	0.034 U	0.74	1.3	0.03 U	1.6
Naphthalene	170	0.034 U	0.15	0.22	0.03 U	4.2
Phenanthrene	--	0.034 U	1.5	2.9	0.03 U	7
Pyrene	--	0.034 U	3.4	6.6	0.03 U	6.1
PCBs (mg/kg)						
Aroclor 1016	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1221	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1232	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1242	--	0.1 U	5.8	0.092 U	0.095 U	0.29
Aroclor 1248	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1254	--	0.2 U	3.4	0.19 U	0.19 U	0.29
Aroclor 1260	--	0.2 U	0.19 U	0.19 U	0.19 U	0.18 U
Total PCBs	--	0.900 U	9.774	0.840 U	0.855 U	1.128
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.2 UJ	1.4 J	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	750	3.6 J	8.1 J	9	5.8 J	7.3
Barium	690,000	58 J	260 J	78 J	18 J	160 J
Beryllium	1,300	1.3	0.72	1.1	0.97	0.95
Cadmium	1,800	0.6 U	3	1.1	0.55 U	1.2
Chromium	270	20 J	570 J	14 J	15 J	13 J
Copper	--	18 J	220 J	140 J	19 J	35 J
Lead	--	17	280	160 J	13	450 J
Mercury	10	0.031 U	0.31	0.32	0.027 U	0.22
Nickel	13,000	24 J	76 J	20 J	23 J	17 J
Selenium	--	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U
Silver	--	1.2 U	1.3	1.1 U	1.1 U	1.1 U
Thallium	--	1.2	1.2 U	1.1 U	1.5	1.1 U
Zinc	--	63 J	780 J	240 J	37 J	320 J
Total Cyanide	--	0.31 U	0.33 U	0.27 U	0.31 U	0.25 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) J - Indicates an estimated value.
(7) Shaded value exceeds Tier 1 screening level.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP06-002 3-4	SP06-003 8-10	SP07-001 1-2	SP07-002 9-10	SP07-003 16-17
TCL Volatiles (mg/kg)						
Acetone	100,000	0.16	0.092 U	0.06 U	0.068 U	0.046 U
Benzene	0.8	0.78	0.056	0.012 U	0.014 U	0.0093 U
Bromodichloromethane	3,000	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Bromoform	53	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Bromomethane	10	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
2-Butanone	--	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Carbon Disulfide	720	0.025 U	0.018 U	0.04	0.014 U	0.0093 U
Carbon Tetrachloride	0.3	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Chlorobenzene	130	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Chloroethane +	1,500	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Chloroform	0.3	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Chloromethane +	110	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Dibromochloromethane	1,300	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1-Dichloroethane	1,300	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,2-Dichloroethane	0.4	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1-Dichloroethene	1,500	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
cis-1,2-Dichloroethene	1,200	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
trans-1,2-Dichloroethene	3,100	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,2-Dichloropropane	15	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
cis-1,3-Dichloropropene	1.1	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
trans-1,3-Dichloropropene	1.1	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Ethylbenzene	400	3	0.38	0.013	0.014 U	0.0093 U
2-Hexanone +	70	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
4-Methyl-2-Pentanone	--	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Methylene Chloride	13	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1,2,2-Tetrachloroethane +	2,000	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Tetrachloroethene	11	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Toluene	650	0.79	0.044	0.012	0.014 U	0.0093 U
1,1,1-Trichloroethane	1,200	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1,2-Trichloroethane	1,800	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Trichloroethene	5	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Vinyl Chloride	0.28	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
m,p-Xylene*	320	3	0.098	0.016	0.014 U	0.0093 U
o-Xylene*	320	2	0.17	0.012 U	0.014 U	0.0093 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP06-002 3-4	SP06-003 8-10	SP07-001 1-2	SP07-002 9-10	SP07-003 16-17
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Bis(2-chloroethyl)ether **	0.2	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Bromophenyl phenyl ether	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Butyl benzyl phthalate	930	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Carbazole	--	0.39 U	1.4	0.47	0.38 U	0.39 U
4-Chloro-3-methylphenol	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Chloroaniline	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Chloronaphthalene	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Chlorophenol	53,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Dibenzofuran	--	1.3	1.6	0.37 U	0.38 U	0.39 U
1,2-Dichlorobenzene	560	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
1,3-Dichlorobenzene +	570	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
1,4-Dichlorobenzene	11,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
3,3´-Dichlorobenzidine	--	0.78 U	2.2 U	0.74 U	0.76 U	0.79 U
2,4-Dichlorophenol	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Diethyl phthalate	2,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Dimethyl phthalate +	1,300	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Di-n-butyl phthalate	2,300	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2,4-Dimethylphenol	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
2,4-Dinitrophenol	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
2,4-Dinitrotoluene	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2,6-Dinitrotoluene	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Di-n-octyl phthalate	10,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachlorobenzene **	1	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachlorobutadiene +	1,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachlorocyclopentadiene	10	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachloroethane	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Isophorone	4,600	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Methylnaphthalene	--	20	17	0.4	0.38 U	0.39 U
2-Methylphenol	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Methylphenol	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Nitroaniline +	73	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
3-Nitroaniline	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
4-Nitroaniline	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
Nitrobenzene	92	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Nitrophenol	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
4-Nitrophenol	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
N-Nitrosodiphenylamine	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.046 U	0.016 U	0.016 U	0.017 U
Pentachlorophenol	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
Phenol	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
1,2,4-Trichlorobenzene	3,200	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2,4,5-Trichlorophenol	--	0.78 U	2.2 U	0.74 U	0.76 U	0.79 U
2,4,6-Trichlorophenol	200	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP06-002 3-4	SP06-003 8-10	SP07-001 1-2	SP07-002 9-10	SP07-003 16-17
PAHs (mg/kg)						
Acenaphthene	--	10	4.5	0.28 U	0.029 U	0.03 U
Acenaphthylene	--	2	4.2	0.39	0.029 U	0.03 U
Anthracene	--	9.6	4.9	0.54	0.029 U	0.03 U
Benzo(a)anthracene	--	3.9	4.2	1.5	0.029 U	0.03 U
Benzo(b)fluoranthene	--	1.1	1.3	1.3	0.029 U	0.03 U
Benzo(k)fluoranthene	--	0.89	1.1	0.98	0.029 U	0.03 U
Benzo(g,h,i)perylene	--	1.2	0.82 U	0.77	0.029 U	0.03 U
Benzo(a)pyrene	--	2.7	0.97	1.6	0.029 U	0.03 U
Chrysene	--	5.1	4.3	1.6	0.029 U	0.03 U
Dibenzo(a,h)anthracene	--	0.52	0.82 U	0.28 U	0.029 U	0.03 U
Fluoranthene	--	9.1	6.8	2.5	0.029 U	0.03 U
Fluorene	--	10	6.5	0.28 U	0.029 U	0.03 U
Indeno(1,2,3-cd)pyrene	--	1.2	0.82 U	0.71	0.029 U	0.03 U
Naphthalene	170	27	13	0.28	0.029 U	0.03 U
Phenanthrene	--	34	21	2.1	0.029 U	0.03 U
Pyrene	--	15	10	2.8	0.029 U	0.03 U
PCBs (mg/kg)						
Aroclor 1016	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1221	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1232	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1242	--	0.094 U	0.09 U	1.5	0.09 U	0.096 U
Aroclor 1248	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1254	--	0.19 U	0.18 U	0.91 U	0.18 U	0.19 U
Aroclor 1260	--	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U
Total PCBs	--	0.850 U	0.810 U	2.954	0.810 U	0.860 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.1 UJ	NA	1 UJ	1.1 UJ	1.1 UJ
Arsenic	750	6.5 J	NA	4.4	7.7 J	8.1 J
Barium	690,000	67 J	NA	370 J	38 J	98 J
Beryllium	1,300	1	NA	5.7	0.98	1.2
Cadmium	1,800	0.98	NA	1.4	0.54 U	0.57 U
Chromium	270	12 J	NA	120 J	17 J	21 J
Copper	--	71 J	NA	400 J	28 J	24 J
Lead	--	190	NA	180 J	55	16
Mercury	10	0.15	NA	0.091	0.029 U	0.032 U
Nickel	13,000	17 J	NA	17 J	33 J	31 J
Selenium	--	1.1 U	NA	2.8	1.1 U	1.1 U
Silver	--	1.1 U	NA	1 U	1.1 U	1.1 U
Thallium	--	1.1 U	NA	1 U	1.4	2.1
Zinc	--	190 J	NA	180 J	69 J	39 J
Total Cyanide	--	0.26 U	NA	0.26 U	0.27 U	0.29 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) J - Indicates an estimated value.
(7) NA - Not analyzed.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP08-001 0-0.5	SP08-002 7-8	SB09-001 3-5	SB10-001 1-2	SP10-002 6-7
TCL Volatiles (mg/kg)						
Acetone	100,000	0.047 U	0.097	0.12	0.062	0.071 U
Benzene	0.8	0.0095 U	0.011 U	0.19	0.0092	3.6
Bromodichloromethane	3,000	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Bromoform	53	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Bromomethane	10	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
2-Butanone	--	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Carbon Disulfide	720	0.0095 U	0.011 U	0.013	0.0074 U	0.014 U
Carbon Tetrachloride	0.3	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Chlorobenzene	130	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Chloroethane +	1,500	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Chloroform	0.3	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Chloromethane +	110	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Dibromochloromethane	1,300	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1-Dichloroethane	1,300	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,2-Dichloroethane	0.4	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1-Dichloroethene	1,500	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
cis-1,2-Dichloroethene	1,200	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
trans-1,2-Dichloroethene	3,100	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,2-Dichloropropane	15	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
cis-1,3-Dichloropropene	1.1	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
trans-1,3-Dichloropropene	1.1	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Ethylbenzene	400	0.0095 U	0.011 U	0.07	0.014	8.2
2-Hexanone +	70	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
4-Methyl-2-Pentanone	--	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Methylene Chloride	13	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1,2,2-Tetrachloroethane +	2,000	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Tetrachloroethene	11	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Toluene	650	0.0095 U	0.011 U	0.011 U	0.0087	0.014 U
1,1,1-Trichloroethane	1,200	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1,2-Trichloroethane	1,800	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Trichloroethene	5	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Vinyl Chloride	0.28	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
m,p-Xylene*	320	0.0095 U	0.011 U	0.013	0.021	5
o-Xylene*	320	0.0095 U	0.011 U	0.087	0.014	1.4
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) Shaded value exceeds Tier 1 screening level.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP08-001 0-0.5	SP08-002 7-8	SB09-001 3-5	SB10-001 1-2	SP10-002 6-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Bis(2-chloroethyl)ether **	0.2	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	2.9	0.4 U	0.75	2.1	0.39 U
4-Bromophenyl phenyl ether	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Butyl benzyl phthalate	930	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Carbazole	--	0.41 U	0.4 U	3.7	1.1	0.39 U
4-Chloro-3-methylphenol	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4-Chloroaniline	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Chloronaphthalene	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Chlorophenol	53,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Dibenzofuran	--	0.41 U	0.4 U	0.65	2	1.2
1,2-Dichlorobenzene	560	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
1,3-Dichlorobenzene +	570	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
1,4-Dichlorobenzene	11,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
3,3´-Dichlorobenzidine	--	0.81 U	0.8 U	0.75 U	0.72 U	0.77 U
2,4-Dichlorophenol	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Diethyl phthalate	2,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Dimethyl phthalate +	1,300	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Di-n-butyl phthalate	2,300	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2,4-Dimethylphenol	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4,6-Dinitro-2-methylphenol	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrophenol	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2,6-Dinitrotoluene	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Di-n-octyl phthalate	10,000	0.71	0.4 U	0.37 U	0.36 U	0.39 U
Hexachlorobenzene	1	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Hexachlorobutadiene +	1,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Hexachlorocyclopentadiene	10	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Hexachloroethane	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Isophorone	4,600	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Methylnaphthalene	--	0.41 U	0.4 U	0.37 U	27	23
2-Methylphenol	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4-Methylphenol	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Nitroaniline +	73	2 U	1.9 U	1.8 U	1.8 U	1.9 U
3-Nitroaniline	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
4-Nitroaniline	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
Nitrobenzene	92	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Nitrophenol	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
4-Nitrophenol	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
N-Nitrosodiphenylamine	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.017 U	0.016 U	0.015 U	0.016 U
Pentachlorophenol	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
Phenol	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
1,2,4-Trichlorobenzene	3,200	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2,4,5-Trichlorophenol	--	0.81 U	0.8 U	0.75 U	0.72 U	0.77 U
2,4,6-Trichlorophenol	200	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP08-001 0-0.5	SP08-002 7-8	SB09-001 3-5	SB10-001 1-2	SP10-002 6-7
PAHs (mg/kg)						
Acenaphthene	--	0.031 U	0.003 U	0.51	2.4	8.6
Acenaphthylene	--	0.28	0.0052	0.36	1.9	5.1
Anthracene	--	0.4	0.011	2.3	7.1	8.6
Benzo(a)anthracene	--	1.4	0.029	3.3	1.6	1.7
Benzo(b)fluoranthene	--	1.2	0.035	2.3	3.5	2.5
Benzo(k)fluoranthene	--	0.9	0.027	2.3	3.4	1.7
Benzo(g,h,i)perylene	--	0.9	0.015	0.74	3.6	1.6
Benzo(a)pyrene	--	1.7	0.031	1.6	3.9	2.2
Chrysene	--	1.5	0.035	3.8	9	11
Dibenzo(a,h)anthracene	--	0.33	0.006	0.31	1.2	0.59
Fluoranthene	--	1.7	0.043	5.3	11	6.8
Fluorene	--	0.078	0.0052	0.92	6.9	6.7
Indeno(1,2,3-cd)pyrene	--	0.83	0.014	0.69	2.6	1.1
Naphthalene	170	0.041	0.004	0.52	10	18
Phenanthrene	--	1	0.032	5.2	24	26
Pyrene	--	2.1	0.056	5.1	14	14
PCBs (mg/kg)						
Aroclor 1016	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1221	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1232	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1242	--	0.37	0.098 U	0.39	3.9	0.094 U
Aroclor 1248	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1254	--	0.28	0.2 U	0.41	3.3	0.19 U
Aroclor 1260	--	0.2 U	0.2 U	0.18 U	0.18 U	0.19 U
Total PCBs	--	1.246	0.890 U	1.332	7.740	0.850 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.2 UJ	1.1 UJ	1 UJ	1.1 J	1.1 UJ
Arsenic	750	7.2	2.8 J	7.8 J	7.2	13 J
Barium	690,000	76 J	31 J	140 J	140 J	80 J
Beryllium	1,300	1.1	1.1	0.6	0.84	1.1
Cadmium	1,800	0.75	0.54 U	1.1	1.9	0.55 U
Chromium	270	15 J	18 J	98 J	26 J	18 J
Copper	--	50 J	22 J	68 J	120 J	32 J
Lead	--	200 J	18	340	260 J	25
Mercury	10	1.4	0.033	0.21	0.3	0.027 U
Nickel	13,000	19 J	24 J	38 J	25 J	35 J
Selenium	--	1.2 U	1.1 U	1 U	0.9 U	1.1 U
Silver	--	1.2 U	1.1 U	1 U	0.9 U	1.1 U
Thallium	--	1.2 U	1.5	1 U	1.3	2
Zinc	--	170 J	42 J	240 J	830 J	53 J
Total Cyanide	--	0.33 U	0.3 U	0.29 U	0.36	0.31 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) J - Indicates an estimated value.
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP10-003 13-14	SP11-001 0-0.5	SP11-002 9-10	SP13-001 1-2	SP13-002 6-7
TCL Volatiles (mg/kg)						
Acetone	100,000	0.053 U	0.057 U	0.078	0.062	0.12
Benzene	0.8	0.92	0.011 U	0.013 U	0.012 U	0.012 U
Bromodichloromethane	3,000	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Bromoform	53	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Bromomethane	10	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
2-Butanone	--	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Carbon Disulfide	720	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Carbon Tetrachloride	0.3	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Chlorobenzene	130	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Chloroethane +	1,500	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Chloroform	0.3	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Chloromethane +	110	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Dibromochloromethane	1,300	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1-Dichloroethane	1,300	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,2-Dichloroethane	0.4	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1-Dichloroethene	1,500	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
cis-1,2-Dichloroethene	1,200	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
trans-1,2-Dichloroethene	3,100	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,2-Dichloropropane	15	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
cis-1,3-Dichloropropene	1.1	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
trans-1,3-Dichloropropene	1.1	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Ethylbenzene	400	9	0.011 U	0.013 U	0.012 U	0.012 U
2-Hexanone +	70	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
4-Methyl-2-Pentanone	--	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Methylene Chloride	13	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1,2,2-Tetrachloroethane +	2,000	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Tetrachloroethene	11	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Toluene	650	0.6	0.011 U	0.013 U	0.012 U	0.012 U
1,1,1-Trichloroethane	1,200	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1,2-Trichloroethane	1,800	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Trichloroethene	5	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Vinyl Chloride	0.28	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
m,p-Xylene*	320	3.8	0.011 U	0.013 U	0.012 U	0.012 U
o-Xylene*	320	12	0.011 U	0.013 U	0.012 U	0.012 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) Shaded value exceeds Tier 1 screening level.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP10-003 13-14	SP11-001 0-0.5	SP11-002 9-10	SP13-001 1-2	SP13-002 6-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Bis(2-chloroethyl)ether **	0.2	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Bis(2-ethylhexyl)phthalate	31,000	0.38 U	1.1	0.38 U	0.36 U	0.4 U
4-Bromophenyl phenyl ether	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Butyl benzyl phthalate	930	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Carbazole	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Chloro-3-methylphenol	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Chloroaniline	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Chloronaphthalene	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Chlorophenol	53,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Chlorophenyl phenyl ether	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Dibenzofuran	--	0.75	0.38 U	0.38 U	0.36 U	0.4 U
1,2-Dichlorobenzene	560	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
1,3-Dichlorobenzene +	570	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
1,4-Dichlorobenzene	11,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
3,3´-Dichlorobenzidine	--	0.77 U	0.76 U	0.77 U	0.73 U	0.8 U
2,4-Dichlorophenol	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Diethyl phthalate	2,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Dimethyl phthalate +	1,300	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Di-n-butyl phthalate	2,300	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2,4-Dimethylphenol	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrophenol	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrotoluene	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2,6-Dinitrotoluene	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Di-n-octyl phthalate	10,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachlorobenzene	1	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachlorobutadiene +	1,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachlorocyclopentadiene	10	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachloroethane	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Isophorone	4,600	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Methylnaphthalene	--	20	1.1	0.42	0.86	0.53
2-Methylphenol	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Methylphenol	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Nitroaniline +	73	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
3-Nitroaniline	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
4-Nitroaniline	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
Nitrobenzene	92	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Nitrophenol	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
4-Nitrophenol	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
N-Nitrosodiphenylamine	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.016 U	0.015 U	0.017 U
Pentachlorophenol	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
Phenol	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
1,2,4-Trichlorobenzene	3,200	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2,4,5-Trichlorophenol	--	0.77 U	0.76 U	0.77 U	0.73 U	0.8 U
2,4,6-Trichlorophenol	200	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP10-003 13-14	SP11-001 0-0.5	SP11-002 9-10	SP13-001 1-2	SP13-002 6-7
PAHs (mg/kg)						
Acenaphthene	--	5.5	1.1	0.046	0.16	0.056
Acenaphthylene	--	3.7	0.86	0.029 U	0.069	0.03 U
Anthracene	--	3.1	2.5	0.029 U	0.13	0.03 U
Benzo(a)anthracene	--	0.37	0.9	0.029 U	0.037	0.03 U
Benzo(b)fluoranthene	--	0.42	1.7	0.029 U	0.13	0.03 U
Benzo(k)fluoranthene	--	0.49	1.6	0.029 U	0.11	0.03 U
Benzo(g,h,i)perylene	--	0.51	0.62	0.029 U	0.2	0.03 U
Benzo(a)pyrene	--	0.45	1.8	0.029 U	0.094	0.03 U
Chrysene	--	2.2	3.1	0.032	0.26	0.03 U
Dibenzo(a,h)anthracene	--	0.13	0.3	0.029 U	0.084	0.03 U
Fluoranthene	--	1.8	3.7	0.037	0.21	0.03 U
Fluorene	--	3.8	1.3	0.029 U	0.15	0.03 U
Indeno(1,2,3-cd)pyrene	--	0.26	0.44	0.029 U	0.14	0.03 U
Naphthalene	170	27	1.5	0.73	0.83	0.99
Phenanthrene	--	9.3	6.5	0.092	0.34	0.04
Pyrene	--	3	7.8	0.063	0.28	0.03 U
PCBs (mg/kg)						
Aroclor 1016	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1221	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1232	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1242	--	0.09 U	0.49	0.094 U	0.98	0.097 U
Aroclor 1248	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1254	--	0.18 U	0.45	0.19 U	0.9 U	0.19 U
Aroclor 1260	--	0.18 U	0.18 U	0.19 U	0.18 U	0.19 U
Total PCBs	--	0.810 U	1.488	0.850 U	2.420	0.865 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.1 UJ	1.1 UJ	1.1 UJ	1 J	1.1 UJ
Arsenic	750	7.5 J	5.4	11 J	7.3	9.4 J
Barium	690,000	83 J	120 J	100 J	86 J	86 J
Beryllium	1,300	1.1	1.1	1.1	0.79	1.2
Cadmium	1,800	0.55 U	1.2	0.56 U	0.7	0.57 U
Chromium	270	19 J	16 J	20 J	14 J	20 J
Copper	--	31 J	90 J	32 J	40 J	34 J
Lead	--	18	140 J	19	250 J	20
Mercury	10	0.028	0.1	0.028 U	2.9	0.03
Nickel	13,000	39 J	26 J	37 J	19 J	34 J
Selenium	--	1.1 U	1.1 U	1.1 U	1 U	1.1 U
Silver	--	1.1 U	1.1 U	1.1 U	1 U	1.1 U
Thallium	--	2.5	1.5	2	1.5	2
Zinc	--	49 J	220 J	47 J	94 J	45 J
Total Cyanide	--	0.25 U	0.89	0.27 U	0.26 U	0.3 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) J - Indicates an estimated value.
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-003 15-16	SB14-001 1-2	SB14-002 6-8	SB15-001 0-0.5	SB15-002 6-8
TCL Volatiles (mg/kg)						
Acetone	100,000	0.055 U	0.051 U	0.078	0.037 U	0.051 U
Benzene	0.8	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Bromodichloromethane	3,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Bromoform	53	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Bromomethane	10	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
2-Butanone	--	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Carbon Disulfide	720	0.011 U	0.01 U	0.015 U	0.0074 U	0.018
Carbon Tetrachloride	0.3	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Chlorobenzene	130	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Chloroethane +	1,500	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Chloroform	0.3	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Chloromethane +	110	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Dibromochloromethane	1,300	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1-Dichloroethane	1,300	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,2-Dichloroethane	0.4	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1-Dichloroethene	1,500	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
cis-1,2-Dichloroethene	1,200	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
trans-1,2-Dichloroethene	3,100	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,2-Dichloropropane	15	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
cis-1,3-Dichloropropene	1.1	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
trans-1,3-Dichloropropene	1.1	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Ethylbenzene	400	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
2-Hexanone +	70	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
4-Methyl-2-Pentanone	--	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Methylene Chloride	13	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1,2,2-Tetrachloroethane +	2,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Tetrachloroethene	11	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Toluene	650	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1,1-Trichloroethane	1,200	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1,2-Trichloroethane	1,800	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Trichloroethene	5	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Vinyl Chloride	0.28	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
m,p-Xylene*	320	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
o-Xylene*	320	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-003 15-16	SB14-001 1-2	SB14-002 6-8	SB15-001 0-0.5	SB15-002 6-8
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Bis(2-chloroethyl)ether **	0.2	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	0.49	0.42 U	0.58	0.39 U
4-Bromophenyl phenyl ether	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Butyl benzyl phthalate	930	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Carbazole	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Chloro-3-methylphenol	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Chloroaniline	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Chloronaphthalene	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Chlorophenol	53,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Dibenzofuran	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,2-Dichlorobenzene	560	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,3-Dichlorobenzene +	570	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,4-Dichlorobenzene	11,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
3,3´-Dichlorobenzidine	--	0.78 U	0.71 U	0.84 U	0.81 U	0.78 U
2,4-Dichlorophenol	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Diethyl phthalate	2,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Dimethyl phthalate +	1,300	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Di-n-butyl phthalate	2,300	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2,4-Dimethylphenol	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.7 U	2 U	2 U	1.9 U
2,4-Dinitrophenol	--	1.9 U	1.7 U	2 U	2 U	1.9 U
2,4-Dinitrotoluene	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2,6-Dinitrotoluene	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Di-n-octyl phthalate	10,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachlorobenzene	1	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachlorobutadiene +	1,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachlorocyclopentadiene	10	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachloroethane	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Isophorone	4,600	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Methylnaphthalene	--	0.79	0.35 U	0.42 U	0.4 U	0.39 U
2-Methylphenol	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Methylphenol	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Nitroaniline +	73	1.9 U	1.7 U	2 U	2 U	1.9 U
3-Nitroaniline	--	1.9 U	1.7 U	2 U	2 U	1.9 U
4-Nitroaniline	--	1.9 U	1.7 U	2 U	2 U	1.9 U
Nitrobenzene	92	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Nitrophenol	--	1.9 U	1.7 U	2 U	2 U	1.9 U
4-Nitrophenol	--	1.9 U	1.7 U	2 U	2 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
N-Nitrosodiphenylamine	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.015 U	0.018 U	0.017 U	0.017 U
Pentachlorophenol	--	1.9 U	1.7 U	2 U	2 U	1.9 U
Phenol	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,2,4-Trichlorobenzene	3,200	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2,4,5-Trichlorophenol	--	0.78 U	0.71 U	0.84 U	0.81 U	0.78 U
2,4,6-Trichlorophenol	200	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-003 15-16	SB14-001 1-2	SB14-002 6-8	SB15-001 0-0.5	SB15-002 6-8
PAHs (mg/kg)						
Acenaphthene	--	0.077	0.15	0.032 U	0.031 U	0.03 U
Acenaphthylene	--	0.03 U	0.18	0.032 U	0.13	0.03 U
Anthracene	--	0.03 U	0.25	0.032 U	0.031 U	0.03 U
Benzo(a)anthracene	--	0.03 U	3.5	0.032 U	0.15	0.03 U
Benzo(b)fluoranthene	--	0.03 U	1.8	0.032 U	0.13	0.03 U
Benzo(k)fluoranthene	--	0.03 U	1.6	0.032 U	0.13	0.03 U
Benzo(g,h,i)perylene	--	0.03 U	0.66	0.032 U	0.17	0.03 U
Benzo(a)pyrene	--	0.03 U	3	0.032 U	0.2	0.03 U
Chrysene	--	0.03 U	3.2	0.032 U	0.21	0.03 U
Dibenzo(a,h)anthracene	--	0.03 U	0.35	0.032 U	0.057	0.03 U
Fluoranthene	--	0.03 U	4.2	0.035	0.24	0.087
Fluorene	--	0.036	0.15	0.032 U	0.031 U	0.03 U
Indeno(1,2,3-cd)pyrene	--	0.03 U	0.67	0.032 U	0.14	0.03 U
Naphthalene	170	1.1	0.19	0.11	0.031 U	0.051
Phenanthrene	--	0.063	0.3	0.071	0.17	0.083
Pyrene	--	0.03 U	11	0.056	0.33	0.13
PCBs (mg/kg)						
Aroclor 1016	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1221	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1232	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1242	--	0.093 U	0.12	0.1 U	0.22	0.096 U
Aroclor 1248	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1254	--	0.19 U	0.17 U	0.2 U	0.2 U	0.19 U
Aroclor 1260	--	0.19 U	0.17 U	0.2 U	0.2 U	0.19 U
Total PCBs	--	0.845 U	0.800	0.900 U	1.004	0.860 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1 UJ	0.98 UJ	1.1 UJ	1 UJ	1.1 UJ
Arsenic	750	9.6 J	3.3	15 J	9.3	12 J
Barium	690,000	74 J	32 J	31 J	150 J	26 J
Beryllium	1,300	1	0.61	1.2	0.99	1.1
Cadmium	1,800	0.66	0.59	0.57 U	2.2	0.57 U
Chromium	270	17 J	12 J	19 J	33 J	16 J
Copper	--	34 J	18 J	32 J	120 J	18 J
Lead	--	19	85 J	26	340 J	13
Mercury	10	0.061	0.06	0.031 U	0.23	0.027
Nickel	13,000	30 J	10 J	43 J	31 J	27 J
Selenium	--	1 U	0.98 U	1.1 U	1 U	1.1 U
Silver	--	1 U	0.98 U	1.1 U	1 U	1.1 U
Thallium	--	1.9	0.98 U	1.2	1	1.1
Zinc	--	42 J	91 J	47 J	550 J	36 J
Total Cyanide	--	0.26 U	0.28 U	0.32 U	0.32 U	0.27 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) J - Indicates an estimated value.
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB15-003 10-12	SP16-001 2-3	SP16-002 9-10	SP16-003 15-16	SB17-001 1-2
TCL Volatiles (mg/kg)						
Acetone	100,000	0.1	0.053 U	0.1	0.062 U	0.06 U
Benzene	0.8	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Bromodichloromethane	3,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Bromoform	53	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Bromomethane	10	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
2-Butanone	--	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Carbon Disulfide	720	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Carbon Tetrachloride	0.3	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Chlorobenzene	130	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Chloroethane +	1,500	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Chloroform	0.3	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Chloromethane +	110	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Dibromochloromethane	1,300	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1-Dichloroethane	1,300	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,2-Dichloroethane	0.4	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1-Dichloroethene	1,500	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
cis-1,2-Dichloroethene	1,200	0.011 U	0.053	0.0098 U	0.012 U	0.012 U
trans-1,2-Dichloroethene	3,100	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,2-Dichloropropane	15	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
cis-1,3-Dichloropropene	1.1	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
trans-1,3-Dichloropropene	1.1	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Ethylbenzene	400	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
2-Hexanone +	70	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
4-Methyl-2-Pentanone	--	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Methylene Chloride	13	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1,2,2-Tetrachloroethane +	2,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Tetrachloroethene	11	0.011 U	0.1	0.0098 U	0.012 U	0.012 U
Toluene	650	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1,1-Trichloroethane	1,200	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1,2-Trichloroethane	1,800	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Trichloroethene	5	0.011 U	0.017	0.0098 U	0.012 U	0.012 U
Vinyl Chloride	0.28	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
m,p-Xylene*	320	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
o-Xylene*	320	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB15-003 10-12	SP16-001 2-3	SP16-002 9-10	SP16-003 15-16	SB17-001 1-2
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Bis(2-chloroethyl)ether **	0.2	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Bis(2-ethylhexyl)phthalate	31,000	0.42 U	1.6	0.39 U	0.39 U	0.94
4-Bromophenyl phenyl ether	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Butyl benzyl phthalate	930	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Carbazole	--	0.42 U	0.75	0.39 U	0.39 U	0.36 U
4-Chloro-3-methylphenol	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4-Chloroaniline	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Chloronaphthalene	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Chlorophenol	53,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Dibenzofuran	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,2-Dichlorobenzene	560	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,3-Dichlorobenzene +	570	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,4-Dichlorobenzene	11,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
3,3´-Dichlorobenzidine	--	0.85 U	0.73 U	0.77 U	0.77 U	0.73 U
2,4-Dichlorophenol	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Diethyl phthalate	2,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Dimethyl phthalate +	1,300	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Di-n-butyl phthalate	2,300	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2,4-Dimethylphenol	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4,6-Dinitro-2-methylphenol	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
2,4-Dinitrophenol	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
2,4-Dinitrotoluene	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2,6-Dinitrotoluene	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Di-n-octyl phthalate	10,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachlorobenzene	1	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachlorobutadiene +	1,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachlorocyclopentadiene	10	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachloroethane	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Isophorone	4,600	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Methylnaphthalene	--	0.42 U	0.64	0.39 U	0.39 U	0.36 U
2-Methylphenol	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4-Methylphenol	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Nitroaniline +	73	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
3-Nitroaniline	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
4-Nitroaniline	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
Nitrobenzene	92	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Nitrophenol	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
4-Nitrophenol	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
N-Nitrosodi-n-propylamine	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
N-Nitrosodiphenylamine	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2, 2'-Oxybis(1-Chloropropane)	--	0.018 U	0.015 U	0.016 U	0.016 U	0.015 U
Pentachlorophenol	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
Phenol	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,2,4-Trichlorobenzene	3,200	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2,4,5-Trichlorophenol	--	0.85 U	0.73 U	0.77 U	0.77 U	0.73 U
2,4,6-Trichlorophenol	200	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB15-003 10-12	SP16-001 2-3	SP16-002 9-10	SP16-003 15-16	SB17-001 1-2
PAHs (mg/kg)						
Acenaphthene	--	0.032 U	0.5	0.029 U	0.029 U	0.036
Acenaphthylene	--	0.032 U	0.15	0.029 U	0.029 U	0.049
Anthracene	--	0.032 U	0.81	0.029 U	0.029 U	0.21
Benzo(a)anthracene	--	0.032 U	0.36	0.029 U	0.029 U	0.089
Benzo(b)fluoranthene	--	0.032 U	0.92	0.029 U	0.029 U	0.15
Benzo(k)fluoranthene	--	0.032 U	1.1	0.029 U	0.029 U	0.12
Benzo(g,h,i)perylene	--	0.032 U	0.81	0.029 U	0.029 U	0.034
Benzo(a)pyrene	--	0.032 U	0.75	0.029 U	0.029 U	0.069
Chrysene	--	0.032 U	2.3	0.029 U	0.029 U	0.087
Dibenzo(a,h)anthracene	--	0.032 U	0.28	0.029 U	0.029 U	0.028 U
Fluoranthene	--	0.032 U	1.8	0.029 U	0.029 U	0.12
Fluorene	--	0.032 U	0.44	0.029 U	0.029 U	0.046
Indeno(1,2,3-cd)pyrene	--	0.032 U	0.54	0.029 U	0.029 U	0.034
Naphthalene	170	0.032 U	0.64	0.029 U	0.029 U	0.051
Phenanthrene	--	0.032 U	2.2	0.029 U	0.029 U	0.21
Pyrene	--	0.032 U	2.7	0.029 U	0.029 U	0.18
PCBs (mg/kg)						
Aroclor 1016	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1221	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1232	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1242	--	0.1 U	4.7	0.094 U	0.095 U	0.15
Aroclor 1248	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1254	--	0.21 U	4.3	0.19 U	0.19 U	0.18 U
Aroclor 1260	--	0.21 U	0.18 U	0.19 U	0.19 U	0.18 U
Total PCBs	--	0.920 U	9.532	0.850 U	0.855 U	0.862
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.1 UJ	1.1 J	1 UJ	1.1 UJ	1 UJ
Arsenic	750	5 J	6.7	12 J	9.6 J	1.4
Barium	690,000	22 J	130 J	79 J	84 J	9.4 J
Beryllium	1,300	1.2	1.3	1.1	1.1	0.54
Cadmium	1,800	0.57 U	2.3	0.52 U	0.56 U	0.5 U
Chromium	270	19 J	47 J	17 J	17 J	5.3 J
Copper	--	31 J	170 J	39 J	28 J	4.9 J
Lead	--	16	150 J	21	17	7.3 J
Mercury	10	0.032 U	0.43	0.027 U	0.033	0.04
Nickel	13,000	30 J	40 J	37 J	24 J	3.3 J
Selenium	--	1.1 U	1 U	1 U	1.1 U	1 U
Silver	--	1.1 U	1 U	1 U	1.1 U	1 U
Thallium	--	2.5	1.4	1.8	1.7	1 U
Zinc	--	42 J	600 J	40 J	33 J	55 J
Total Cyanide	--	0.28 U	0.26 U	0.25 U	0.28 U	0.28 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) J - Indicates an estimated value.
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB18B-001 1-2	SB19-001 1-2	SB20-001 0-0.5	SB21-001 1-2	SB22-002 8-10
TCL Volatiles (mg/kg)						
Acetone	100,000	0.062 U	0.05	0.12	0.036	0.065
Benzene	0.8	0.012 U	0.039	0.0084 U	0.077	0.0089 U
Bromodichloromethane	3,000	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Bromoform	53	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Bromomethane	10	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
2-Butanone	--	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Carbon Disulfide	720	0.012 U	0.0081 U	0.011	0.0065 U	0.0089 U
Carbon Tetrachloride	0.3	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Chlorobenzene	130	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Chloroethane +	1,500	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Chloroform	0.3	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Chloromethane +	110	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Dibromochloromethane	1,300	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1-Dichloroethane	1,300	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,2-Dichloroethane	0.4	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1-Dichloroethene	1,500	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
cis-1,2-Dichloroethene	1,200	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
trans-1,2-Dichloroethene	3,100	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,2-Dichloropropane	15	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
cis-1,3-Dichloropropene	1.1	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
trans-1,3-Dichloropropene	1.1	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Ethylbenzene	400	0.012 U	0.22	0.014	0.12	0.0089 U
2-Hexanone +	70	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
4-Methyl-2-Pentanone	--	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Methylene Chloride	13	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1,2,2-Tetrachloroethane +	2,000	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Tetrachloroethene	11	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Toluene	650	0.012 U	0.064	0.0097	0.018	0.0089 U
1,1,1-Trichloroethane	1,200	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1,2-Trichloroethane	1,800	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Trichloroethene	5	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Vinyl Chloride	0.28	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
m,p-Xylene*	320	0.012 U	0.2	0.031	0.034	0.0089 U
o-Xylene*	320	0.012 U	0.12	0.011	0.036	0.0089 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB18B-001 1-2	SB19-001 1-2	SB20-001 0-0.5	SB21-001 1-2	SB22-002 8-10
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Bis(2-chloroethyl)ether **	0.2	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	1.2	0.63	2.7	0.59 J	0.39 U
4-Bromophenyl phenyl ether	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Butyl benzyl phthalate	930	0.35 U	0.36 U	0.58	0.38 U	0.39 U
Carbazole	--	0.35 U	3.2	0.53	0.91 J	0.39 U
4-Chloro-3-methylphenol	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4-Chloroaniline	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Chloronaphthalene	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Chlorophenol	53,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Dibenzofuran	--	0.35 U	0.94	0.38 U	0.9 J	0.39 U
1,2-Dichlorobenzene	560	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
1,3-Dichlorobenzene +	570	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
1,4-Dichlorobenzene	11,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
3,3´-Dichlorobenzidine	--	0.7 U	0.72 U	0.75 U	0.75 U	0.78 U
2,4-Dichlorophenol	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Diethyl phthalate	2,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Dimethyl phthalate +	1,300	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Di-n-butyl phthalate	2,300	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2,4-Dimethylphenol	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrophenol	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2,6-Dinitrotoluene	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Di-n-octyl phthalate	10,000	1.6	0.36 U	0.38 U	0.38 U	0.39 U
Hexachlorobenzene	1	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Hexachlorobutadiene +	1,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Hexachlorocyclopentadiene	10	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Hexachloroethane	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Isophorone	4,600	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Methylnaphthalene	--	0.47	20	0.59	2.3 J	0.39 U
2-Methylphenol	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4-Methylphenol	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Nitroaniline +	73	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
3-Nitroaniline	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
4-Nitroaniline	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
Nitrobenzene	92	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Nitrophenol	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
4-Nitrophenol	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
N-Nitrosodiphenylamine	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.015 U	0.015 U	0.016 U	0.38 U	0.39 U
Pentachlorophenol	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
Phenol	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
1,2,4-Trichlorobenzene	3,200	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2,4,5-Trichlorophenol	--	0.7 U	0.72 U	0.75 U	0.75 U	0.78 U
2,4,6-Trichlorophenol	200	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) J - Indicates an estimated value.
(6) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(7) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB18B-001 1-2	SB19-001 1-2	SB20-001 0-0.5	SB21-001 1-2	SB22-002 8-10
PAHs (mg/kg)						
Acenaphthene	--	0.19	3.1	0.31	3.3 J	0.031
Acenaphthylene	--	0.12	2.3	0.19	2.5 J	0.029 U
Anthracene	--	0.67	3.1	0.78	5 J	0.047
Benzo(a)anthracene	--	0.31	1.4	0.26	1.6 J	0.029 U
Benzo(b)fluoranthene	--	0.57	3.4	2	3.1 J	0.029 U
Benzo(k)fluoranthene	--	0.6	3	1.9	3.5 J	0.029 U
Benzo(g,h,i)perylene	--	0.8	3	0.89	3.7 J	0.029 U
Benzo(a)pyrene	--	0.41	2.7	0.67	4 J	0.029 U
Chrysene	--	1.7	5.4	1.4	5.6 J	0.04
Dibenzo(a,h)anthracene	--	0.25	1.3	0.3	1.1 J	0.029 U
Fluoranthene	--	1.2	7.4	2.4	8.1 J	0.029 U
Fluorene	--	0.3	3.2	0.31	3.6 J	0.033
Indeno(1,2,3-cd)pyrene	--	0.52	2.5	0.62	2.5 J	0.029 U
Naphthalene	170	0.42	13	0.47	2.4 J	0.2
Phenanthrene	--	1.9	9.7	2.5	13 J	0.13
Pyrene	--	1.8	8.9	1.9	14 J	0.029 U
PCBs (mg/kg)						
Aroclor 1016	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1221	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1232	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1242	--	1.9	0.55	1.3	0.1	0.094 U
Aroclor 1248	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1254	--	1.6	0.52	0.91 U	0.18 U	0.19 U
Aroclor 1260	--	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U
Total PCBs	--	4.010	1.588	2.754	0.824	0.850 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1 J	0.98 J	1 J	0.97 UJ	1.1 UJ
Arsenic	750	4	2.5	4.3	6.9	5.7 J
Barium	690,000	99 J	69 J	150 J	76 J	34 J
Beryllium	1,300	0.79	0.5	0.87	0.48 U	0.57 U
Cadmium	1,800	1.1	0.44	1.3	0.89	0.57 U
Chromium	270	12 J	9.2 J	15 J	15 J	18 J
Copper	--	67 J	33 J	37 J	48 J	26 J
Lead	--	130 J	46 J	94 J	120 J	22
Mercury	10	0.2	0.1	0.53	0.33	0.029
Nickel	13,000	11 J	12 J	14 J	22 J	31 J
Selenium	--	0.93 U	0.82 U	1 U	0.97 U	1.1 U
Silver	--	0.93 U	0.82 U	1 U	0.97 U	1.1 U
Thallium	--	1.2	1.1	1.5	0.97 U	1.2
Zinc	--	240 J	98 J	210 J	150 J	46 J
Total Cyanide	--	0.26 U	0.25 U	0.32 U	0.3 U	0.3 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) J - Indicates an estimated value.
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB23-001 1-2	SB24-001 1-2	SB25-001 1-2	SB25-002 3-5	SB25-003 12-14
TCL Volatiles (mg/kg)						
Acetone	100,000	0.056 U	0.056 U	0.12	0.11	0.058 U
Benzene	0.8	0.011 U	0.011 U	1.5	0.22	0.012 U
Bromodichloromethane	3,000	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Bromoform	53	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Bromomethane	10	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
2-Butanone	--	0.022 U	0.022 U	0.026	0.034 U	0.023 U
Carbon Disulfide	720	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Carbon Tetrachloride	0.3	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Chlorobenzene	130	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Chloroethane +	1,500	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
Chloroform	0.3	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Chloromethane +	110	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Dibromochloromethane	1,300	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1-Dichloroethane	1,300	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,2-Dichloroethane	0.4	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1-Dichloroethene	1,500	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
cis-1,2-Dichloroethene	1,200	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
trans-1,2-Dichloroethene	3,100	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,2-Dichloropropane	15	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
cis-1,3-Dichloropropene	1.1	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
trans-1,3-Dichloropropene	1.1	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Ethylbenzene	400	0.011 U	0.016	2.8	4.6	0.012 U
2-Hexanone +	70	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
4-Methyl-2-Pentanone	--	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
Methylene Chloride	13	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1,2,2-Tetrachloroethane +	2,000	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Tetrachloroethene	11	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Toluene	650	0.011 U	0.011 U	0.03	0.54	0.012 U
1,1,1-Trichloroethane	1,200	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1,2-Trichloroethane	1,800	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Trichloroethene	5	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Vinyl Chloride	0.28	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
m,p-Xylene*	320	0.011 U	0.011 U	0.068	6.7	0.012 U
o-Xylene*	320	0.011 U	0.011 U	0.72	6.8	0.012 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) Shaded value exceeds Tier 1 screening level.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB23-001 1-2	SB24-001 1-2	SB25-001 1-2	SB25-002 3-5	SB25-003 12-14
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Bis(2-chloroethyl)ether **	0.2	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Bis(2-ethylhexyl)phthalate	31,000	2.1	1.7 U	0.36 U	1.2	0.42
4-Bromophenyl phenyl ether	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Butyl benzyl phthalate	930	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Carbazole	--	1.8 U	4.1	1.9	5.7	0.4 U
4-Chloro-3-methylphenol	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4-Chloroaniline	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Chloronaphthalene	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Chlorophenol	53,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4-Chlorophenyl phenyl ether	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Dibenzofuran	--	1.8 U	1.7 U	0.84	4.7	0.4 U
1,2-Dichlorobenzene	560	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
1,3-Dichlorobenzene +	570	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
1,4-Dichlorobenzene	11,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
3,3´-Dichlorobenzidine	--	3.7 U	3.5 U	0.72 U	0.81 U	0.8 U
2,4-Dichlorophenol	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Diethyl phthalate	2,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Dimethyl phthalate +	1,300	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Di-n-butyl phthalate	2,300	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2,4-Dimethylphenol	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4,6-Dinitro-2-methylphenol	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
2,4-Dinitrophenol	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
2,4-Dinitrotoluene	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2,6-Dinitrotoluene	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Di-n-octyl phthalate	10,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachlorobenzene **	1	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachlorobutadiene +	1,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachlorocyclopentadiene	10	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachloroethane	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Isophorone	4,600	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Methylnaphthalene	--	1.8 U	1.7 U	4.1	58	0.4
2-Methylphenol	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4-Methylphenol	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Nitroaniline +	73	8.9 U	8.4 U	1.7 U	2 U	1.9 U
3-Nitroaniline	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
4-Nitroaniline	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
Nitrobenzene	92	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Nitrophenol	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
4-Nitrophenol	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
N-Nitrosodi-n-propylamine	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
N-Nitrosodiphenylamine	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.078 U	0.073 U	0.015 U	0.017 U	0.017 U
Pentachlorophenol	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
Phenol	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
1,2,4-Trichlorobenzene	3,200	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2,4,5-Trichlorophenol	--	3.7 U	3.5 U	0.72 U	0.81 U	0.8 U
2,4,6-Trichlorophenol	200	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB23-001 1-2	SB24-001 1-2	SB25-001 1-2	SB25-002 3-5	SB25-003 12-14
PAHs (mg/kg)						
Acenaphthene	--	2.1	0.63	8.3	19	0.03 U
Acenaphthylene	--	5	0.34	6.1	8.9	0.03 U
Anthracene	--	4.1	2.1	8.1	16	0.03 U
Benzo(a)anthracene	--	5.9	0.29	8	14	0.03 U
Benzo(b)fluoranthene	--	3.1	1.5	4	7	0.03 U
Benzo(k)fluoranthene	--	3.2	1.3	3.3	7	0.03 U
Benzo(g,h,i)perylene	--	1.6	1.5	2.3	3.7	0.03 U
Benzo(a)pyrene	--	5	1.7	5.1	9.2	0.03 U
Chrysene	--	6.6	3.6	9.1	15	0.03 U
Dibenzo(a,h)anthracene	--	1.4 U	0.72	0.84	0.94	0.03 U
Fluoranthene	--	9.4	6.4	16	20	0.03 U
Fluorene	--	2.4	0.67	7	26	0.067
Indeno(1,2,3-cd)pyrene	--	1.4 U	1.4	2.1	3.1 U	0.03 U
Naphthalene	170	1.8	0.65	6.7	28	0.6
Phenanthrene	--	10	5.4	30	62	0.15
Pyrene	--	14	7	24	32	0.03 U
PCBs (mg/kg)						
Aroclor 1016	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1221	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1232	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1242	--	0.95	1.1	0.086 U	0.098 U	0.096 U
Aroclor 1248	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1254	--	0.72	0.9	0.17 U	0.2 U	0.19 U
Aroclor 1260	--	0.18 U	0.17 U	0.17 U	0.2 U	0.19 U
Total PCBs	--	2.206	2.518	0.770 U	0.890 U	0.860 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.1 J	1.1 J	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	750	5	2.5	3.2	7.8 J	11 J
Barium	690,000	98 J	110 J	130 J	92 J	110 J
Beryllium	1,300	0.76	0.62	0.76	1.3	1.2
Cadmium	1,800	0.88	1.2	0.59	0.56 U	0.57 U
Chromium	270	10 J	13 J	7.8 J	17 J	18 J
Copper	--	41 J	60 J	18 J	25 J	26 J
Lead	--	140 J	150 J	61 J	58	17
Mercury	10	0.21	0.2	0.17	0.35	0.03 U
Nickel	13,000	13 J	12 J	6.9 J	29 J	28 J
Selenium	--	0.99 U	0.96 U	1.1 U	1.1 U	1.1 U
Silver	--	0.99 U	0.96 U	1.1 U	1.1 U	1.1 U
Thallium	--	1.4	1.3	1.4	1.8	1.9
Zinc	--	120 J	270 J	73 J	58 J	41 J
Total Cyanide	--	0.28 U	0.22 U	0.27 U	0.26 U	0.31 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) J - Indicates an estimated value.
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB27-001 5-7	SB27-002 10-12	SB28-001 2-3	SB28-002 5-7	SB29-001 3-5
TCL Volatiles (mg/kg)						
Acetone	100,000	0.046	0.035 U	0.093	0.048	0.055 U
Benzene	0.8	0.0084 U	0.0069 U	0.041	0.0076 U	0.011 U
Bromodichloromethane	3,000	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Bromoform	53	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Bromomethane	10	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
2-Butanone	--	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Carbon Disulfide	720	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Carbon Tetrachloride	0.3	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Chlorobenzene	130	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Chloroethane +	1,500	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Chloroform	0.3	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Chloromethane +	110	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Dibromochloromethane	1,300	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1-Dichloroethane	1,300	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,2-Dichloroethane	0.4	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1-Dichloroethene	1,500	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
cis-1,2-Dichloroethene	1,200	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
trans-1,2-Dichloroethene	3,100	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,2-Dichloropropane	15	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
cis-1,3-Dichloropropene	1.1	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
trans-1,3-Dichloropropene	1.1	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Ethylbenzene	400	0.0084 U	0.0069 U	0.059	0.0076 U	0.011 U
2-Hexanone +	70	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
4-Methyl-2-Pentanone	--	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Methylene Chloride	13	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1,2,2-Tetrachloroethane +	2,000	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Tetrachloroethene	11	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Toluene	650	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1,1-Trichloroethane	1,200	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1,2-Trichloroethane	1,800	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Trichloroethene	5	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Vinyl Chloride	0.28	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
m,p-Xylene*	320	0.0084 U	0.0069 U	0.012	0.0076 U	0.011 U
o-Xylene*	320	0.0084 U	0.0069 U	0.015	0.0076 U	0.011 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB27-001 5-7	SB27-002 10-12	SB28-001 2-3	SB28-002 5-7	SB29-001 3-5
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Bis(2-chloroethyl)ether **	0.2	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	0.38 U	0.38 U	0.45	0.4 U	0.39 U
4-Bromophenyl phenyl ether	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Butyl benzyl phthalate	930	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Carbazole	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Chloro-3-methylphenol	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Chloroaniline	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Chloronaphthalene	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Chlorophenol	53,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Dibenzofuran	--	0.38 U	0.38 U	0.5	0.4 U	0.39 U
1,2-Dichlorobenzene	560	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
1,3-Dichlorobenzene +	570	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
1,4-Dichlorobenzene	11,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
3,3´-Dichlorobenzidine	--	0.76 U	0.76 U	0.78 U	0.79 U	0.78 U
2,4-Dichlorophenol	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Diethyl phthalate	2,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Dimethyl phthalate +	1,300	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Di-n-butyl phthalate	2,300	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2,4-Dimethylphenol	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrophenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2,6-Dinitrotoluene	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Di-n-octyl phthalate	10,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachlorobenzene	1	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachlorobutadiene +	1,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachlorocyclopentadiene	10	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachloroethane	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Isophorone	4,600	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Methylnaphthalene	--	0.38 U	0.38 U	1.1	0.4 U	0.39 U
2-Methylphenol	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Methylphenol	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Nitroaniline +	73	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
3-Nitroaniline	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Nitroaniline	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Nitrobenzene	92	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Nitrophenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Nitrophenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
N-Nitrosodiphenylamine	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Pentachlorophenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
1,2,4-Trichlorobenzene	3,200	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2,4,5-Trichlorophenol	--	0.76 U	0.76 U	0.78 U	0.79 U	0.78 U
2,4,6-Trichlorophenol	200	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB27-001 5-7	SB27-002 10-12	SB28-001 2-3	SB28-002 5-7	SB29-001 3-5
PAHs (mg/kg)						
Acenaphthene	--	0.029 U	0.029 U	1.7	0.03 U	0.035
Acenaphthylene	--	0.029 U	0.029 U	1.4	0.03 U	0.029 U
Anthracene	--	0.029 U	0.029 U	3.5	0.03 U	0.038
Benzo(a)anthracene	--	0.029 U	0.029 U	1.1	0.03 U	0.029 U
Benzo(b)fluoranthene	--	0.029 U	0.029 U	1.8	0.03 U	0.029 U
Benzo(k)fluoranthene	--	0.029 U	0.029 U	1.9	0.03 U	0.029 U
Benzo(g,h,i)perylene	--	0.029 U	0.029 U	3	0.03 U	0.029 U
Benzo(a)pyrene	--	0.029 U	0.029 U	2.6	0.03 U	0.029 U
Chrysene	--	0.029 U	0.029 U	3.8	0.03 U	0.052
Dibenzo(a,h)anthracene	--	0.029 U	0.029 U	0.89	0.03 U	0.029 U
Fluoranthene	--	0.029 U	0.029 U	0.051	0.03 U	0.029
Fluorene	--	0.029 U	0.029 U	1.1	0.03 U	0.033
Indeno(1,2,3-cd)pyrene	--	0.029 U	0.029 U	1.9	0.03 U	0.029 U
Naphthalene	170	0.029 U	0.029 U	1.4	0.03 U	0.094
Phenanthrene	--	0.031	0.047	0.038	0.03 U	0.14
Pyrene	--	0.029 U	0.029 U	0.097	0.03 U	0.044
PCBs (mg/kg)						
Aroclor 1016	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1221	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1232	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1242	--	0.094 U	0.093 U	0.34	0.14	0.094 U
Aroclor 1248	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1254	--	0.19 U	0.19 U	0.2	0.19 U	0.19 U
Aroclor 1260	--	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Total PCBs	--	0.850 U	0.845 U	1.102	0.904	0.850 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	750	7.1 J	7 J	6.1	9.2 J	11 J
Barium	690,000	32 J	39 J	67 J	41 J	41 J
Beryllium	1,300	0.53 U	0.55 U	0.55 U	0.57 U	0.57 U
Cadmium	1,800	0.53 U	0.55 U	0.71	0.57 U	0.57 U
Chromium	270	16 J	17 J	14 J	18 J	18 J
Copper	--	39 J	29 J	42 J	27 J	30 J
Lead	--	20	19	120 J	31	23
Mercury	10	0.028 U	0.028 U	0.53	0.049	0.031
Nickel	13,000	31 J	30 J	20 J	33 J	38 J
Selenium	--	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Silver	--	12	1.1 U	1.1 U	1.1 U	1.1 U
Thallium	--	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Zinc	--	50 J	42 J	150 J	61 J	46 J
Total Cyanide	--	0.28 U	0.27 U	0.29 U	0.3 U	0.28 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) J - Indicates an estimated value.
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB29-002 12-14	SB31-001 2-3	SB31-002 6-8	SB32-001 2-3	SB32-002 3-5
TCL Volatiles (mg/kg)						
Acetone	100,000	0.067 U	0.03	0.064 U	0.067 U	0.081 U
Benzene	0.8	0.013 U	0.024	0.013 U	5.2	0.77
Bromodichloromethane	3,000	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Bromoform	53	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Bromomethane	10	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
2-Butanone	--	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Carbon Disulfide	720	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Carbon Tetrachloride	0.3	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Chlorobenzene	130	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Chloroethane +	1,500	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Chloroform	0.3	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Chloromethane +	110	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Dibromochloromethane	1,300	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1-Dichloroethane	1,300	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,2-Dichloroethane	0.4	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1-Dichloroethene	1,500	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
cis-1,2-Dichloroethene	1,200	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
trans-1,2-Dichloroethene	3,100	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,2-Dichloropropane	15	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
cis-1,3-Dichloropropene	1.1	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
trans-1,3-Dichloropropene	1.1	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Ethylbenzene	400	0.013 U	0.038	0.013 U	1.5	2
2-Hexanone +	70	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
4-Methyl-2-Pentanone	--	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Methylene Chloride	13	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1,2,2-Tetrachloroethane +	2,000	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Tetrachloroethene	11	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Toluene	650	0.013 U	0.032	0.013 U	0.77	0.016 U
1,1,1-Trichloroethane	1,200	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1,2-Trichloroethane	1,800	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Trichloroethene	5	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Vinyl Chloride	0.28	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
m,p-Xylene*	320	0.013 U	0.047	0.013 U	0.62	0.057
o-Xylene*	320	0.013 U	0.029	0.013 U	0.47	0.034
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) Shaded value exceeds Tier 1 screening level.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB29-002 12-14	SB31-001 2-3	SB31-002 6-8	SB32-001 2-3	SB32-002 3-5
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Bis(2-chloroethyl)ether **	0.2	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	0.33 U	0.37 U	0.99	0.87
4-Bromophenyl phenyl ether	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Butyl benzyl phthalate	930	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Carbazole	--	0.39 U	0.33 U	0.37 U	0.46	1.3
4-Chloro-3-methylphenol	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4-Chloroaniline	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Chloronaphthalene	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Chlorophenol	53,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Dibenzofuran	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
1,2-Dichlorobenzene	560	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
1,3-Dichlorobenzene +	570	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
1,4-Dichlorobenzene	11,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
3,3´-Dichlorobenzidine	--	0.78 U	0.33 U	0.74 U	0.66 U	0.78 U
2,4-Dichlorophenol	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Diethyl phthalate	2,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Dimethyl phthalate +	1,300	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Di-n-butyl phthalate	2,300	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2,4-Dimethylphenol	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
2,4-Dinitrophenol	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
2,4-Dinitrotoluene	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2,6-Dinitrotoluene	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Di-n-octyl phthalate	10,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachlorobenzene	1	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachlorobutadiene +	1,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachlorocyclopentadiene	10	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachloroethane	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Isophorone	4,600	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Methylnaphthalene	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Methylphenol	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4-Methylphenol	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Nitroaniline +	73	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
3-Nitroaniline	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
4-Nitroaniline	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
Nitrobenzene	92	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Nitrophenol	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
4-Nitrophenol	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
N-Nitrosodiphenylamine	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.39 U	0.33 U	0.016 U	0.014 U	0.017 U
Pentachlorophenol	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
Phenol	--	0.39 U	15	0.37 U	0.33 U	0.39 U
1,2,4-Trichlorobenzene	3,200	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2,4,5-Trichlorophenol	--	0.78 U	0.66 U	0.74 U	0.66 U	0.78 U
2,4,6-Trichlorophenol	200	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB29-002 12-14	SB31-001 2-3	SB31-002 6-8	SB32-001 2-3	SB32-002 3-5
PAHs (mg/kg)						
Acenaphthene	--	0.029 U	0.44	0.028 U	0.8	0.84
Acenaphthylene	--	0.029 U	0.13 U	0.029	1.2	0.99
Anthracene	--	0.029 U	0.7	0.047	1.5	0.98
Benzo(a)anthracene	--	0.029 U	0.2	0.028 U	2.7	1.8
Benzo(b)fluoranthene	--	0.029 U	0.84	0.028 U	1.2	0.87
Benzo(k)fluoranthene	--	0.029 U	0.48	0.028 U	0.76	0.75
Benzo(g,h,i)perylene	--	0.029 U	1.5	0.028 U	0.61	0.38
Benzo(a)pyrene	--	0.029 U	0.91	0.028 U	1.7	1.1
Chrysene	--	0.029 U	1.5	0.075	2.5	1.7
Dibenzo(a,h)anthracene	--	0.029 U	0.13 U	0.028 U	0.25 U	0.3 U
Fluoranthene	--	0.029 U	0.67	0.075	3.4	2.8
Fluorene	--	0.029 U	0.53	0.03	1	0.87
Indeno(1,2,3-cd)pyrene	--	0.029 U	1.1	0.028 U	0.56	0.34
Naphthalene	170	0.029 U	0.68	0.11	0.25 U	2.1
Phenanthrene	--	0.036	2	0.17	3.8	3.7
Pyrene	--	0.029 U	1.1	0.13	4.6	4
PCBs (mg/kg)						
Aroclor 1016	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1221	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1232	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1242	--	0.095 U	3.7	0.093 U	1.3	0.15
Aroclor 1248	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1254	--	0.19 U	1.8	0.19 U	1.1	0.19 U
Aroclor 1260	--	0.19 U	0.17 U	0.19 U	0.17 U	0.19 U
Total PCBs	--	0.855 U	6.002	0.845 U	2.910	0.902
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.1 UJ	1 UJ	1.1 UJ	1.1 J	1.1 J
Arsenic	750	7.2 J	5	12 J	4.8	3.4 J
Barium	690,000	38 J	43 J	31 J	110 J	80 J
Beryllium	1,300	0.55 U	0.62	0.93	1	0.9
Cadmium	1,800	0.55 U	1.2	0.55 U	1.2	0.7
Chromium	270	17 J	16 J	19 J	29 J	13 J
Copper	--	27 J	33 J	29 J	91 J	35 J
Lead	--	18	120 J	18	190 J	65
Mercury	10	0.032	0.25	0.037	0.21	0.052
Nickel	13,000	32 J	18 J	31 J	18 J	11 J
Selenium	--	1.1 U	1 U	1.1 U	0.98 U	1.1 U
Silver	--	1.1 U	1 U	1.1 U	0.98 U	1.1 U
Thallium	--	1.1 U	1 U	1.2	1.3	1.5
Zinc	--	50 J	200 J	45 J	260 J	88 J
Total Cyanide	--	0.29 U	0.24 U	0.27 U	0.25 U	0.27 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) J - Indicates an estimated value.
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB33-001 0-0.5	SB33-002 5-7	SB33-003 10-12	SP34-001 0-0.5	SP34-002 5-7
TCL Volatiles (mg/kg)						
Acetone	100,000	0.042 U	0.12	0.064 U	0.041 U	0.14
Benzene	0.8	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Bromodichloromethane	3,000	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Bromoform	53	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Bromomethane	10	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
2-Butanone	--	0.017 U	0.027	0.026 U	0.017 U	0.024 U
Carbon Disulfide	720	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Carbon Tetrachloride	0.3	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Chlorobenzene	130	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Chloroethane +	1,500	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
Chloroform	0.3	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Chloromethane +	110	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Dibromochloromethane	1,300	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1-Dichloroethane	1,300	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,2-Dichloroethane	0.4	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1-Dichloroethene	1,500	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
cis-1,2-Dichloroethene	1,200	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
trans-1,2-Dichloroethene	3,100	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,2-Dichloropropane	15	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
cis-1,3-Dichloropropene	1.1	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
trans-1,3-Dichloropropene	1.1	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Ethylbenzene	400	0.01	0.012 U	0.013 U	0.015	0.012 U
2-Hexanone +	70	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
4-Methyl-2-Pentanone	--	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
Methylene Chloride	13	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1,2,2-Tetrachloroethane +	2,000	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Tetrachloroethene	11	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Toluene	650	0.0084 U	0.012 U	0.013 U	0.013	0.012 U
1,1,1-Trichloroethane	1,200	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1,2-Trichloroethane	1,800	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Trichloroethene	5	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Vinyl Chloride	0.28	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
m,p-Xylene*	320	0.0084 U	0.012 U	0.013 U	0.043	0.012 U
o-Xylene*	320	0.0084 U	0.025	0.013 U	0.033	0.012 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB33-001 0-0.5	SB33-002 5-7	SB33-003 10-12	SP34-001 0-0.5	SP34-002 5-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Bis(2-chloroethyl)ether **	0.2	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Bis(2-ethylhexyl)phthalate	31,000	2 U	0.4 U	0.39 U	2	0.4 U
4-Bromophenyl phenyl ether	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Butyl benzyl phthalate	930	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Carbazole	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Chloro-3-methylphenol	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Chloroaniline	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Chloronaphthalene	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Chlorophenol	53,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Chlorophenyl phenyl ether	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Dibenzofuran	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,2-Dichlorobenzene	560	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,3-Dichlorobenzene +	570	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,4-Dichlorobenzene	11,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
3,3´-Dichlorobenzidine	--	4.1 U	0.81 U	0.79 U	3.5 U	0.8 U
2,4-Dichlorophenol	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Diethyl phthalate	2,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Dimethyl phthalate +	1,300	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Di-n-butyl phthalate	2,300	6.3	0.4 U	0.39 U	1.8 U	0.4 U
2,4-Dimethylphenol	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4,6-Dinitro-2-methylphenol	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
2,4-Dinitrophenol	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
2,4-Dinitrotoluene	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2,6-Dinitrotoluene	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Di-n-octyl phthalate	10,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachlorobenzene **	1	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachlorobutadiene +	1,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachlorocyclopentadiene	10	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachloroethane	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Isophorone	4,600	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Methylnaphthalene	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Methylphenol	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Methylphenol	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Nitroaniline +	73	9.9 U	2 U	1.9 U	8.6 U	1.9 U
3-Nitroaniline	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
4-Nitroaniline	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
Nitrobenzene	92	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Nitrophenol	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
4-Nitrophenol	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
N-Nitrosodi-n-propylamine	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
N-Nitrosodiphenylamine	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.087 U	0.017 U	0.017 U	0.075 U	0.017 U
Pentachlorophenol	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
Phenol	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,2,4-Trichlorobenzene	3,200	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2,4,5-Trichlorophenol	--	4.1 U	0.81 U	0.79 U	3.5 U	0.8 U
2,4,6-Trichlorophenol	200	2 U	0.4 U	0.39 U	1.8 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB33-001 0-0.5	SB33-002 5-7	SB33-003 10-12	SP34-001 0-0.5	SP34-002 5-7
PAHs (mg/kg)						
Acenaphthene	--	1.5 U	0.031 U	0.03 U	0.13 U	0.12
Acenaphthylene	--	1.6	0.031 U	0.03 U	0.19	0.086
Anthracene	--	1.8	0.031 U	0.03 U	0.36	0.17
Benzo(a)anthracene	--	2.8	0.031 U	0.03 U	0.13 U	0.094
Benzo(b)fluoranthene	--	1.7	0.031 U	0.03 U	0.24	0.13
Benzo(k)fluoranthene	--	1.5 U	0.031 U	0.03 U	0.24	0.14
Benzo(g,h,i)perylene	--	1.5 U	0.031 U	0.03 U	0.57	0.36
Benzo(a)pyrene	--	1.8	0.031 U	0.03 U	0.13	0.14
Chrysene	--	3.2	0.031 U	0.041	0.75	0.39
Dibenzo(a,h)anthracene	--	1.5 U	0.031 U	0.03 U	0.13 U	0.11
Fluoranthene	--	3.7	0.031 U	0.039	0.21	0.33
Fluorene	--	1.5 U	0.031 U	0.03 U	0.13 U	0.31
Indeno(1,2,3-cd)pyrene	--	1.5 U	0.031 U	0.03 U	0.29	0.24
Naphthalene	170	2.1	0.14	0.042	0.38	0.03 U
Phenanthrene	--	4.1	0.076	0.083	1.3	0.13
Pyrene	--	5.5	0.047	0.033	0.36	1.2
PCBs (mg/kg)						
Aroclor 1016	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1221	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1232	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1242	--	2.5	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1248	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1254	--	2.2	0.19 U	0.19 U	1.7 U	0.2 U
Aroclor 1260	--	0.18 U	0.19 U	0.19 U	1.7 U	0.2 U
Total PCBs	--	5.232	0.860 U	0.850 U	7.750 U	0.890 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.1 UJ	1.1 UJ	1.1 UJ	1 UJ	1.2 UJ
Arsenic	750	5.9	5.1 J	17 J	1.2	7.5 J
Barium	690,000	100 J	97 J	63 J	59 J	100 J
Beryllium	1,300	0.86	1.2	1	0.57	1.3
Cadmium	1,800	0.59	0.59	0.54 U	0.54	0.59 U
Chromium	270	11 J	17 J	16 J	5.1 J	21 J
Copper	--	43 J	31 J	55 J	6.8 J	28 J
Lead	--	140 J	17	30	25 J	19
Mercury	10	0.28	0.046	0.023 U	0.026 U	0.031 U
Nickel	13,000	12 J	26 J	30 J	7.4 J	33 J
Selenium	--	1.1 U	1.1 U	1.1 U	1 U	1.2 U
Silver	--	1.1 U	1.1 U	1.1 U	1 U	1.2 U
Thallium	--	1.5	1.9	2	1.3	2.1
Zinc	--	69 J	54 J	43 J	29 J	53 J
Total Cyanide	--	0.29 U	0.34 U	0.29 U	0.27 U	0.31 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) J - Indicates an estimated value.
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP35-001 1-2	SP35-002 6-7	SP35-003 12-13	SP37-001 1-2	SP37-002 8-9
TCL Volatiles (mg/kg)						
Acetone	100,000	0.14	0.13	0.042 U	0.044 U	0.082
Benzene	0.8	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Bromodichloromethane	3,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Bromoform	53	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Bromomethane	10	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
2-Butanone	--	0.015	0.027	0.017 U	0.018 U	0.02 U
Carbon Disulfide	720	0.013	0.012 U	0.0084 U	0.0088 U	0.0099 U
Carbon Tetrachloride	0.3	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Chlorobenzene	130	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Chloroethane +	1,500	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
Chloroform	0.3	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Chloromethane +	110	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Dibromochloromethane	1,300	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1-Dichloroethane	1,300	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,2-Dichloroethane	0.4	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1-Dichloroethene	1,500	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
cis-1,2-Dichloroethene	1,200	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
trans-1,2-Dichloroethene	3,100	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,2-Dichloropropane	15	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
cis-1,3-Dichloropropene	1.1	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
trans-1,3-Dichloropropene	1.1	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Ethylbenzene	400	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
2-Hexanone +	70	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
4-Methyl-2-Pentanone	--	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
Methylene Chloride	13	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1,2,2-Tetrachloroethane +	2,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Tetrachloroethene	11	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Toluene	650	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1,1-Trichloroethane	1,200	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1,2-Trichloroethane	1,800	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Trichloroethene	5	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Vinyl Chloride	0.28	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
m,p-Xylene*	320	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
o-Xylene*	320	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP35-001 1-2	SP35-002 6-7	SP35-003 12-13	SP37-001 1-2	SP37-002 8-9
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Bis(2-chloroethyl)ether **	0.2	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	5.6	0.39 U	0.39 U	0.42 U	0.39 U
4-Bromophenyl phenyl ether	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Butyl benzyl phthalate	930	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Carbazole	--	0.47	0.39 U	0.39 U	0.67	0.39 U
4-Chloro-3-methylphenol	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4-Chloroaniline	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Chloronaphthalene	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Chlorophenol	53,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Dibenzofuran	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,2-Dichlorobenzene	560	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,3-Dichlorobenzene +	570	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,4-Dichlorobenzene	11,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
3,3´-Dichlorobenzidine	--	0.71 U	0.79 U	0.77 U	0.85 U	0.77 U
2,4-Dichlorophenol	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Diethyl phthalate	2,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Dimethyl phthalate +	1,300	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Di-n-butyl phthalate	2,300	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2,4-Dimethylphenol	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
2,4-Dinitrophenol	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
2,4-Dinitrotoluene	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2,6-Dinitrotoluene	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Di-n-octyl phthalate	10,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachlorobenzene	1	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachlorobutadiene +	1,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachlorocyclopentadiene	10	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachloroethane	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Isophorone	4,600	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Methylnaphthalene	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Methylphenol	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4-Methylphenol	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Nitroaniline +	73	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
3-Nitroaniline	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
4-Nitroaniline	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
Nitrobenzene	92	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Nitrophenol	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
4-Nitrophenol	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
N-Nitrosodiphenylamine	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.015 U	0.017 U	0.016 U	0.018 U	0.016 U
Pentachlorophenol	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
Phenol	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,2,4-Trichlorobenzene	3,200	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2,4,5-Trichlorophenol	--	0.71 U	0.79 U	0.77 U	0.85 U	0.77 U
2,4,6-Trichlorophenol	200	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP35-001 1-2	SP35-002 6-7	SP35-003 12-13	SP37-001 1-2	SP37-002 8-9
PAHs (mg/kg)						
Acenaphthene	--	0.11	0.03 U	0.029 U	0.13	0.029 U
Acenaphthylene	--	0.082	0.03 U	0.029 U	0.074	0.029 U
Anthracene	--	0.15	0.03 U	0.029 U	0.33	0.029 U
Benzo(a)anthracene	--	0.19	0.064	0.029 U	0.17	0.029 U
Benzo(b)fluoranthene	--	0.47	0.041	0.029 U	0.38	0.029 U
Benzo(k)fluoranthene	--	0.53	0.056	0.029 U	0.87	0.029 U
Benzo(g,h,i)perylene	--	0.57	0.037	0.029 U	0.35	0.029 U
Benzo(a)pyrene	--	0.33	0.072	0.029 U	0.32	0.029 U
Chrysene	--	0.71	0.066	0.029 U	1.1	0.029 U
Dibenzo(a,h)anthracene	--	0.076	0.03 U	0.029 U	0.19	0.029 U
Fluoranthene	--	0.55	0.074	0.029 U	2	0.029 U
Fluorene	--	0.086	0.03 U	0.029 U	0.12	0.029 U
Indeno(1,2,3-cd)pyrene	--	0.18	0.036	0.029 U	0.36	0.029 U
Naphthalene	170	0.16	0.03 U	0.029 U	0.18	0.056
Phenanthrene	--	0.7	0.03 U	0.029 U	1	0.029 U
Pyrene	--	0.63	0.074	0.029 U	2.1	0.029 U
PCBs (mg/kg)						
Aroclor 1016	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1221	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1232	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1242	--	8.5	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1248	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1254	--	6	0.19 U	0.19 U	0.2 U	0.18 U
Aroclor 1260	--	0.17 U	0.19 U	0.19 U	0.2 U	0.18 U
Total PCBs	--	15.014	0.855 U	0.855 U	0.900 U	0.820 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	6.5 J	1.1 UJ	1.1 UJ	1.2 UJ	0.97 UJ
Arsenic	750	20	5.8 J	12 J	7.2	15 J
Barium	690,000	520 J	98 J	89 J	120 J	98 J
Beryllium	1,300	1.4	0.83	1.1	1.1	1.2
Cadmium	1,800	8.1	0.56 U	0.56 U	0.72	0.53
Chromium	270	320 J	11 J	20 J	19 J	20 J
Copper	--	480 J	11 J	30 J	28 J	38 J
Lead	--	1400 J	36	25	61 J	22
Mercury	10	2.6	0.14	0.024 U	0.33	0.026 U
Nickel	13,000	210 J	12 J	35 J	26 J	38 J
Selenium	--	0.99 U	1.1 U	1.1 U	1.2 U	0.97 U
Silver	--	1	1.1 U	1.1 U	1.2 U	0.97 U
Thallium	--	1.3	2	2.2	2	2
Zinc	--	1600 J	40 J	49 J	73 J	46 J
Total Cyanide	--	0.28 U	0.29 U	0.24 U	0.35 U	0.25 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) J - Indicates an estimated value.
(7) Shaded value exceeds Tier 1 screening level.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP37-003 12-13	SB38-001 5-7	SP39-001 1-2	SP39-002 5-6	SP39-003 10-11
TCL Volatiles (mg/kg)						
Acetone	100,000	0.066 J	0.12 J	0.036 U	0.11	0.047 U
Benzene	0.8	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Bromodichloromethane	3,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Bromoform	53	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Bromomethane	10	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
2-Butanone	--	0.023 U	0.029 UJ	0.014 U	0.027	0.019 U
Carbon Disulfide	720	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Carbon Tetrachloride	0.3	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Chlorobenzene	130	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Chloroethane +	1,500	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
Chloroform	0.3	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Chloromethane +	110	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Dibromochloromethane	1,300	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1-Dichloroethane	1,300	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,2-Dichloroethane	0.4	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1-Dichloroethene	1,500	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
cis-1,2-Dichloroethene	1,200	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
trans-1,2-Dichloroethene	3,100	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,2-Dichloropropane	15	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
cis-1,3-Dichloropropene	1.1	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
trans-1,3-Dichloropropene	1.1	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Ethylbenzene	400	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
2-Hexanone +	70	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
4-Methyl-2-Pentanone	--	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
Methylene Chloride	13	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1,2,2-Tetrachloroethane +	2,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Tetrachloroethene	11	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Toluene	650	0.012 U	0.014 UJ	0.008	0.013 U	0.0094 U
1,1,1-Trichloroethane	1,200	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1,2-Trichloroethane	1,800	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Trichloroethene	5	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Vinyl Chloride	0.28	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
m,p-Xylene*	320	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
o-Xylene*	320	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) Shaded value exceeds Tier 1 screening level.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP37-003 12-13	SB38-001 5-7	SP39-001 1-2	SP39-002 5-6	SP39-003 10-11
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Bis(2-chloroethyl)ether **	0.2	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Bis(2-ethylhexyl)phthalate	31,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Bromophenyl phenyl ether	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Butyl benzyl phthalate	930	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Carbazole	--	0.38 U	0.53	1.7 U	0.4 U	0.38 U
4-Chloro-3-methylphenol	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Chloroaniline	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Chloronaphthalene	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Chlorophenol	53,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Chlorophenyl phenyl ether	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Dibenzofuran	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,2-Dichlorobenzene	560	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,3-Dichlorobenzene +	570	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,4-Dichlorobenzene	11,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
3,3´-Dichlorobenzidine	--	0.75 U	0.83 U	3.5 U	0.8 U	0.77 U
2,4-Dichlorophenol	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Diethyl phthalate	2,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Dimethyl phthalate +	1,300	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Di-n-butyl phthalate	2,300	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2,4-Dimethylphenol	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4,6-Dinitro-2-methylphenol	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
2,4-Dinitrophenol	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
2,4-Dinitrotoluene	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2,6-Dinitrotoluene	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Di-n-octyl phthalate	10,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachlorobenzene **	1	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachlorobutadiene +	1,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachlorocyclopentadiene	10	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachloroethane	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Isophorone	4,600	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Methylnaphthalene	--	0.38 U	1.7	1.7 U	0.4 U	0.38 U
2-Methylphenol	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Methylphenol	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Nitroaniline +	73	1.8 U	2 U	8.4 U	1.9 U	1.9 U
3-Nitroaniline	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
4-Nitroaniline	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
Nitrobenzene	92	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Nitrophenol	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
4-Nitrophenol	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
N-Nitrosodiphenylamine	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.018 U	0.074 U	0.017 U	0.016 U
Pentachlorophenol	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
Phenol	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,2,4-Trichlorobenzene	3,200	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2,4,5-Trichlorophenol	--	0.75 U	0.83 U	3.5 U	0.8 U	0.77 U
2,4,6-Trichlorophenol	200	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP37-003 12-13	SB38-001 5-7	SP39-001 1-2	SP39-002 5-6	SP39-003 10-11
PAHs (mg/kg)						
Acenaphthene	--	0.028 U	0.42	1.3 U	0.056	0.029 U
Acenaphthylene	--	0.028 U	0.37	1.3 U	0.03 U	0.029 U
Anthracene	--	0.028 U	1.7	1.3 U	0.29	0.03
Benzo(a)anthracene	--	0.028 U	1.9	1.3 U	0.13	0.029 U
Benzo(b)fluoranthene	--	0.028 U	1.1	1.3 U	0.58	0.029 U
Benzo(k)fluoranthene	--	0.028 U	0.96	1.3 U	0.65	0.029 U
Benzo(g,h,i)perylene	--	0.028 U	0.46	1.3 U	0.31	0.029 U
Benzo(a)pyrene	--	0.028 U	0.89	1.3 U	0.64	0.029 U
Chrysene	--	0.028 U	2.3	1.3 U	1.1	0.056
Dibenzo(a,h)anthracene	--	0.028 U	0.15	1.3 U	0.23	0.029 U
Fluoranthene	--	0.028 U	4.1	1.3 U	1.6	0.081
Fluorene	--	0.028 U	0.7	1.3 U	0.056	0.029 U
Indeno(1,2,3-cd)pyrene	--	0.028 U	0.38	1.3 U	0.3 U	0.029 U
Naphthalene	170	0.028 U	2	1.3 U	0.032	0.029 U
Phenanthrene	--	0.028 U	5.7	1.3	0.81	0.071
Pyrene	--	0.028 U	4.7	2	1.7	0.076
PCBs (mg/kg)						
Aroclor 1016	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1221	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1232	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1242	--	0.092 U	0.1 U	0.087 U	0.1 U	0.14
Aroclor 1248	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1254	--	0.18 U	0.2 U	0.17 U	0.2 U	0.19 U
Aroclor 1260	--	0.18 U	0.2 U	0.17 U	0.2 U	0.19 U
Total PCBs	--	0.820 U	0.900 U	0.775 U	0.900 U	0.900
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.2 UJ	1.3 UJ	1.1 UJ	6 J	1 UJ
Arsenic	750	7.7 J	7.7 J	1.7	10 J	8.1 J
Barium	690,000	85 J	49 J	57 J	140 J	83 J
Beryllium	1,300	1.1	1.1	0.59	1.1	1.1
Cadmium	1,800	0.59 U	0.69	0.95	1	0.51 U
Chromium	270	19 J	22 J	5.6 J	11 J	19 J
Copper	--	25 J	33 J	9.1 J	59 J	30 J
Lead	--	17	40	23 J	970	19
Mercury	10	0.029 U	0.051	0.025 U	6.2	0.027
Nickel	13,000	25 J	28 J	8.8 J	13 J	29 J
Selenium	--	1.2 U	1.3 U	1.1 U	1.1 U	1 U
Silver	--	1.2 U	1.3 U	1.1 U	1.1 U	1 U
Thallium	--	1.8	1.5	1.4	1.6	1.9
Zinc	--	37 J	88 J	33 J	200 J	40 J
Total Cyanide	--	0.31 U	0.33 U	0.28 U	0.31 U	0.3 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) J - Indicates an estimated value.
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP40-002 7-8	SP40-003 14-15	SP43-001 2-3	SP43-002 3.5-4.5	SP43-003 11-12
TCL Volatiles (mg/kg)						
Acetone	100,000	0.071	0.043 U	0.15	0.063 U	0.041 U
Benzene	0.8	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Bromodichloromethane	3,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Bromoform	53	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Bromomethane	10	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
2-Butanone	--	0.02 U	0.017 U	0.031	0.025 U	0.017 U
Carbon Disulfide	720	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Carbon Tetrachloride	0.3	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Chlorobenzene	130	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Chloroethane +	1,500	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
Chloroform	0.3	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Chloromethane +	110	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Dibromochloromethane	1,300	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1-Dichloroethane	1,300	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,2-Dichloroethane	0.4	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1-Dichloroethene	1,500	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
cis-1,2-Dichloroethene	1,200	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
trans-1,2-Dichloroethene	3,100	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,2-Dichloropropane	15	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
cis-1,3-Dichloropropene	1.1	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
trans-1,3-Dichloropropene	1.1	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Ethylbenzene	400	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
2-Hexanone +	70	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
4-Methyl-2-Pentanone	--	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
Methylene Chloride	13	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1,2,2-Tetrachloroethane +	2,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Tetrachloroethene	11	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Toluene	650	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1,1-Trichloroethane	1,200	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1,2-Trichloroethane	1,800	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Trichloroethene	5	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Vinyl Chloride	0.28	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
m,p-Xylene*	320	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
o-Xylene*	320	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP40-002 7-8	SP40-003 14-15	SP43-001 2-3	SP43-002 3.5-4.5	SP43-003 11-12
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Bis(2-chloroethyl)ether **	0.2	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Bromophenyl phenyl ether	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Butyl benzyl phthalate	930	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Carbazole	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Chloro-3-methylphenol	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Chloroaniline	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Chloronaphthalene	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Chlorophenol	53,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Dibenzofuran	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,2-Dichlorobenzene	560	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,3-Dichlorobenzene +	570	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,4-Dichlorobenzene	11,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
3,3´-Dichlorobenzidine	--	0.77 U	0.77 U	0.85 U	0.78 U	0.78 U
2,4-Dichlorophenol	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Diethyl phthalate	2,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Dimethyl phthalate +	1,300	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Di-n-butyl phthalate	2,300	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2,4-Dimethylphenol	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
2,4-Dinitrophenol	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
2,4-Dinitrotoluene	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2,6-Dinitrotoluene	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Di-n-octyl phthalate	10,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachlorobenzene	1	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachlorobutadiene +	1,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachlorocyclopentadiene	10	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachloroethane	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Isophorone	4,600	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Methylnaphthalene	--	0.39 U	0.39 U	0.43 U	1.6	0.39 U
2-Methylphenol	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Methylphenol	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Nitroaniline +	73	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
3-Nitroaniline	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
4-Nitroaniline	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
Nitrobenzene	92	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Nitrophenol	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
4-Nitrophenol	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
N-Nitrosodiphenylamine	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.018 U	0.016 U	0.016 U
Pentachlorophenol	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
Phenol	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,2,4-Trichlorobenzene	3,200	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2,4,5-Trichlorophenol	--	0.77 U	0.77 U	0.85 U	0.78 U	0.78 U
2,4,6-Trichlorophenol	200	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP40-002 7-8	SP40-003 14-15	SP43-001 2-3	SP43-002 3.5-4.5	SP43-003 11-12
PAHs (mg/kg)						
Acenaphthene	--	0.029 U	0.029 U	0.072	0.062	0.029 U
Acenaphthylene	--	0.029 U	0.029 U	0.17	0.074	0.029 U
Anthracene	--	0.029 U	0.029 U	0.032 U	0.029	0.029 U
Benzo(a)anthracene	--	0.029 U	0.029 U	0.045	0.09	0.029 U
Benzo(b)fluoranthene	--	0.029 U	0.029 U	0.12	0.13	0.029 U
Benzo(k)fluoranthene	--	0.029 U	0.029 U	0.098	0.11	0.029 U
Benzo(g,h,i)perylene	--	0.029 U	0.029 U	0.062	0.087	0.029 U
Benzo(a)pyrene	--	0.029 U	0.029 U	0.056	0.13	0.029 U
Chrysene	--	0.029 U	0.029 U	0.3	0.16	0.029 U
Dibenzo(a,h)anthracene	--	0.029 U	0.029 U	0.032 U	0.038	0.029 U
Fluoranthene	--	0.029 U	0.029 U	0.15	0.17	0.029 U
Fluorene	--	0.029 U	0.029 U	0.032 U	0.16	0.029 U
Indeno(1,2,3-cd)pyrene	--	0.029 U	0.029 U	0.043	0.076	0.029 U
Naphthalene	170	0.029 U	0.029 U	0.062	0.22	0.029 U
Phenanthrene	--	0.029 U	0.029 U	0.19	0.38	0.029 U
Pyrene	--	0.029 U	0.029 U	0.14	0.088	0.029 U
PCBs (mg/kg)						
Aroclor 1016	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1221	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1232	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1242	--	0.093 U	0.094 U	0.1 U	0.28	0.097 U
Aroclor 1248	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1254	--	0.19 U	0.19 U	0.21 U	0.26	0.19 U
Aroclor 1260	--	0.19 U	0.19 U	0.21 U	0.2 U	0.19 U
Total PCBs	--	0.845 U	0.850 U	0.920 U	1.136	0.865 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.1 UJ	1 UJ	1.3 UJ	NA	1 UJ
Arsenic	750	10 J	8.3 J	9.5	NA	9 J
Barium	690,000	88 J	87 J	170 J	NA	91 J
Beryllium	1,300	1.1	1.1	1.2	NA	1.1
Cadmium	1,800	0.56 U	0.52 U	0.85	NA	0.5 U
Chromium	270	16 J	19 J	16 J	NA	21 J
Copper	--	33 J	28 J	73 J	NA	30 J
Lead	--	19	17	69 J	NA	19
Mercury	10	0.029 U	0.028 U	0.18	NA	0.03 U
Nickel	13,000	36 J	28 J	20 J	NA	33 J
Selenium	--	1.1 U	1 U	1.3 U	NA	1 U
Silver	--	1.1 U	1 U	1.3 U	NA	1 U
Thallium	--	2.2	1.9	1.9	NA	1.9
Zinc	--	52 J	45 J	100 J	NA	46 J
Total Cyanide	--	0.32 U	0.27 U	0.35 U	NA	0.27 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) NA - Not analyzed.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP44-001 0-0.5	SP44-002 6-7	SP44-003 12-13	SB45-001 0-0.5	SB46-001 10-12
TCL Volatiles (mg/kg)						
Acetone	100,000	0.079 U	0.082	0.069 U	0.065	0.036 U
Benzene	0.8	0.016 U	0.0089 U	0.014 U	0.12	0.0073 U
Bromodichloromethane	3,000	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Bromoform	53	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Bromomethane	10	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
2-Butanone	--	0.031 U	0.018 U	0.028 U	0.034	0.015 U
Carbon Disulfide	720	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Carbon Tetrachloride	0.3	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Chlorobenzene	130	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Chloroethane +	1,500	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
Chloroform	0.3	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Chloromethane +	110	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Dibromochloromethane	1,300	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,1-Dichloroethane	1,300	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,2-Dichloroethane	0.4	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,1-Dichloroethene	1,500	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
cis-1,2-Dichloroethene	1,200	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
trans-1,2-Dichloroethene	3,100	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,2-Dichloropropane	15	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
cis-1,3-Dichloropropene	1.1	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
trans-1,3-Dichloropropene	1.1	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Ethylbenzene	400	0.016 U	0.0089 U	0.014 U	0.37	0.0073 U
2-Hexanone +	70	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
4-Methyl-2-Pentanone	--	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
Methylene Chloride	13	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	0.0073 U
Styrene	1,500	0.016 U	0.0089 U	0.014 U	0.014	0.0073 U
1,1,2,2-Tetrachloroethane +	2,000	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Tetrachloroethene	11	0.023	0.0089 U	0.014 U	0.0094 U	0.0073 U
Toluene	650	0.016 U	0.0089 U	0.014 U	0.025	0.0073 U
1,1,1-Trichloroethane	1,200	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,1,2-Trichloroethane	1,800	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Trichloroethene	5	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Vinyl Chloride	0.28	0.031 U	0.018 U	0.028 U	0.019 U	0.0073 U
m,p-Xylene*	320	0.016 U	0.0089 U	0.014 U	0.057	NA
o-Xylene*	320	0.016 U	0.0089 U	0.014 U	0.17	NA
Xylenes, Total	320	NA	NA	NA	NA	0.015 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP44-001 0-0.5	SP44-002 6-7	SP44-003 12-13	SB45-001 0-0.5	SB46-001 10-12
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Bis(2-chloroethyl)ether **	0.2	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Bis(2-ethylhexyl)phthalate	31,000	9.7	0.4 U	0.39 U	2.1	0.43 U
4-Bromophenyl phenyl ether	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Butyl benzyl phthalate	930	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Carbazole	--	1.9 U	0.4 U	0.39 U	0.87	0.87
4-Chloro-3-methylphenol	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4-Chloroaniline	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Chloronaphthalene	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Chlorophenol	53,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4-Chlorophenyl phenyl ether	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Dibenzofuran	--	1.9 U	0.4 U	0.39 U	0.35 U	1.8
1,2-Dichlorobenzene	560	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
1,3-Dichlorobenzene +	570	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
1,4-Dichlorobenzene	11,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
3,3´-Dichlorobenzidine	--	3.9 U	0.79 U	0.77 U	0.69 U	0.86 U
2,4-Dichlorophenol	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Diethyl phthalate	2,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Dimethyl phthalate +	1,300	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Di-n-butyl phthalate	2,300	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2,4-Dimethylphenol	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4,6-Dinitro-2-methylphenol	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
2,4-Dinitrophenol	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
2,4-Dinitrotoluene	--	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
2,6-Dinitrotoluene	--	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
Di-n-octyl phthalate	10,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachlorobenzene **	1	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachlorobutadiene +	1,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachlorocyclopentadiene	10	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachloroethane	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Isophorone	4,600	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Methylnaphthalene	--	1.9 U	0.4 U	0.39 U	1.7	2.8
2-Methylphenol	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4-Methylphenol	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Nitroaniline +	73	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
3-Nitroaniline	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
4-Nitroaniline	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
Nitrobenzene	92	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
2-Nitrophenol	--	9.4 U	1.9 U	1.9 U	1.7 U	0.43 U
4-Nitrophenol	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
N-Nitrosodi-n-propylamine	--	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
N-Nitrosodiphenylamine	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2, 2'-Oxybis(1-Chloropropane)	--	0.082 U	0.017 U	0.016 U	0.015 U	0.43 U
Pentachlorophenol	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
Phenol	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
1,2,4-Trichlorobenzene	3,200	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2,4,5-Trichlorophenol	--	3.9 U	0.79 U	0.77 U	0.69 U	0.86 U
2,4,6-Trichlorophenol	200	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP44-001 0-0.5	SP44-002 6-7	SP44-003 12-13	SB45-001 0-0.5	SB46-001 10-12
PAHs (mg/kg)						
Acenaphthene	--	0.15 U	0.03 U	0.029 U	0.74	4.9
Acenaphthylene	--	0.15 U	0.03 U	0.029 U	0.65	0.73
Anthracene	--	0.16	0.03 U	0.029 U	1.9	6.4
Benzo(a)anthracene	--	0.15 U	0.03 U	0.029 U	2.5	5.8
Benzo(b)fluoranthene	--	0.78	0.03 U	0.029 U	2	4.5
Benzo(k)fluoranthene	--	0.81	0.03 U	0.029 U	1.9	4.1
Benzo(g,h,i)perylene	--	1.1	0.03 U	0.029 U	1.3	2.7
Benzo(a)pyrene	--	0.45	0.03 U	0.029 U	2.4	5.9
Chrysene	--	0.83	0.03 U	0.029 U	3.9	5.4
Dibenzo(a,h)anthracene	--	0.25	0.03 U	0.029 U	0.37	0.83
Fluoranthene	--	0.45	0.03 U	0.029 U	4.1	13
Fluorene	--	0.15 U	0.03 U	0.029 U	1.2	3.8
Indeno(1,2,3-cd)pyrene	--	0.69	0.03 U	0.029 U	0.94	2.4
Naphthalene	170	0.15 U	0.03 U	0.029 U	1.8	6.5
Phenanthrene	--	0.42	0.03 U	0.029 U	3.6	17
Pyrene	--	0.64	0.03 U	0.029 U	6.8	14
PCBs (mg/kg)						
Aroclor 1016	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1221	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1232	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1242	--	1.5	0.096 U	0.093 U	5.2 U	NA
Aroclor 1248	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1254	--	1	0.19 U	0.19 U	5.2 U	NA
Aroclor 1260	--	0.19 U	0.19 U	0.19 U	0.17 U	NA
Total PCBs	--	3.066	0.860 U	0.845 U	10.906 U	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	0.98 J	1.1 UJ	1.2 UJ	0.95 UJ	NA
Arsenic	750	3.8	13 J	9.3 J	7.6	NA
Barium	690,000	140 J	79 J	94 J	59 J	NA
Beryllium	1,300	1.1	1.2	1.2	0.63	NA
Cadmium	1,800	1.5	0.57 U	0.58 U	1.1	NA
Chromium	270	21 J	20 J	20 J	13 J	NA
Copper	--	79 J	31 J	33 J	42 J	NA
Lead	--	210 J	19	20	240 J	NA
Mercury	10	0.38	0.03 U	0.026 U	0.3	NA
Nickel	13,000	16 J	39 J	35 J	17 J	NA
Selenium	--	0.94 U	1.1 U	1.2 U	0.95 U	NA
Silver	--	0.94 U	1.1 U	1.2 U	0.95 U	NA
Thallium	--	1.3	1.8	2.3	0.95 U	NA
Zinc	--	290 J	52 J	45 J	140 J	NA
Total Cyanide	--	0.28 U	0.32 U	0.31 U	1.3	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) NA - Not analyzed.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB46-002 16 -18	SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10	SB48-002 18 - 20
TCL Volatiles (mg/kg)						
Acetone	100,000	0.031 U	0.035 U	0.032 U	0.036 U	0.03 U
Benzene	0.8	0.0062 U	0.05	0.0065 U	0.0072 U	0.0059 U
Bromodichloromethane	3,000	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Bromoform	53	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Bromomethane	10	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
2-Butanone	--	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Carbon Disulfide	720	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Carbon Tetrachloride	0.3	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Chlorobenzene	130	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Chloroethane +	1,500	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Chloroform	0.3	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Chloromethane +	110	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Dibromochloromethane	1,300	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1-Dichloroethane	1,300	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,2-Dichloroethane	0.4	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1-Dichloroethene	1,500	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
cis-1,2-Dichloroethene	1,200	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
trans-1,2-Dichloroethene	3,100	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,2-Dichloropropane	15	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
cis-1,3-Dichloropropene	1.1	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
trans-1,3-Dichloropropene	1.1	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Ethylbenzene	400	0.0062 U	0.33	0.0065 U	0.0072 U	0.0059 U
2-Hexanone +	70	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
4-Methyl-2-Pentanone	--	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Methylene Chloride	13	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Methyl tert-butyl ether	8,800	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Styrene	1,500	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1,2,2-Tetrachloroethane +	2,000	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Tetrachloroethene	11	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Toluene	650	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1,1-Trichloroethane	1,200	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1,2-Trichloroethane	1,800	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Trichloroethene	5	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Vinyl Chloride	0.28	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
m,p-Xylene*	320	NA	NA	NA	NA	NA
o-Xylene*	320	NA	NA	NA	NA	NA
Xylenes, Total	320	0.012 U	0.26	0.013 U	0.014 U	0.012 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB46-002 16 -18	SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10	SB48-002 18 - 20
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Bis(2-chloroethyl)ether **	0.2	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Bis(2-ethylhexyl)phthalate	31,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Bromophenyl phenyl ether	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Butyl benzyl phthalate	930	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Carbazole	--	0.42 U	1.1	0.41 U	0.57	0.41 U
4-Chloro-3-methylphenol	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Chloroaniline	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Chloronaphthalene	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Chlorophenol	53,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Dibenzofuran	--	0.42 U	2.5	0.41 U	1.5	0.41 U
1,2-Dichlorobenzene	560	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
1,3-Dichlorobenzene +	570	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
1,4-Dichlorobenzene	11,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
3,3´-Dichlorobenzidine	--	0.83 U	0.88 U	0.82 U	0.89 U	0.82 U
2,4-Dichlorophenol	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Diethyl phthalate	2,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Dimethyl phthalate +	1,300	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Di-n-butyl phthalate	2,300	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2,4-Dimethylphenol	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4,6-Dinitro-2-methylphenol	--	2 U	2.1 U	2 U	2.2 U	2 U
2,4-Dinitrophenol	--	2 U	2.1 U	2 U	2.2 U	2 U
2,4-Dinitrotoluene	--	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
2,6-Dinitrotoluene	--	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
Di-n-octyl phthalate	10,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachlorobenzene	1	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachlorobutadiene +	1,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachlorocyclopentadiene	10	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachloroethane	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Isophorone	4,600	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Methylnaphthalene	--	0.42 U	27	0.41 U	2.5	1.1
2-Methylphenol	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Methylphenol	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Nitroaniline +	73	2 U	2.1 U	2 U	2.2 U	2 U
3-Nitroaniline	--	2 U	2.1 U	2 U	2.2 U	2 U
4-Nitroaniline	--	2 U	2.1 U	2 U	2.2 U	2 U
Nitrobenzene	92	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
2-Nitrophenol	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Nitrophenol	--	2 U	2.1 U	2 U	2.2 U	2 U
N-Nitrosodi-n-propylamine	--	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
N-Nitrosodiphenylamine	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2, 2'-Oxybis(1-Chloropropane)	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Pentachlorophenol	--	2 U	2.1 U	2 U	2.2 U	2 U
Phenol	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
1,2,4-Trichlorobenzene	3,200	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2,4,5-Trichlorophenol	--	0.83 U	0.88 U	0.82 U	0.89 U	0.82 U
2,4,6-Trichlorophenol	200	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB46-002 16 -18	SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10	SB48-002 18 - 20
PAHs (mg/kg)						
Acenaphthene	--	0.17	22	0.074	5.9	0.41
Acenaphthylene	--	0.033	2.7	0.031 U	0.99	0.031 U
Anthracene	--	0.19	11	0.031 U	9.5	0.16
Benzo(a)anthracene	--	0.17	9	0.032	8.6	0.11
Benzo(b)fluoranthene	--	0.075	4.5	0.031 U	5.5	0.063
Benzo(k)fluoranthene	--	0.12	5.1	0.031 U	6.2	0.082
Benzo(g,h,i)perylene	--	0.046	3.9	0.031 U	5.5	0.034
Benzo(a)pyrene	--	0.086	4.6	0.031 U	9.8	0.088
Chrysene	--	0.2	8	0.048	8.1	0.14
Dibenzo(a,h)anthracene	--	0.031 U	0.91	0.031 U	1.2	0.031 U
Fluoranthene	--	0.42	20	0.072	20	0.22
Fluorene	--	0.13	13	0.04	3.5	0.26
Indeno(1,2,3-cd)pyrene	--	0.035	2.5	0.031 U	4.2	0.031 U
Naphthalene	170	0.4	33	0.13	5.3	7.8
Phenanthrene	--	0.6	43	0.12	21	0.52
Pyrene	--	0.52	26	0.088	22	0.21
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	--	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	NA	NA	NA	NA	NA
Arsenic	750	NA	NA	NA	NA	NA
Barium	690,000	NA	NA	NA	NA	NA
Beryllium	1,300	NA	NA	NA	NA	NA
Cadmium	1,800	NA	NA	NA	NA	NA
Chromium	270	NA	NA	NA	NA	NA
Copper	--	NA	NA	NA	NA	NA
Lead	--	NA	NA	NA	NA	NA
Mercury	10	NA	NA	NA	NA	NA
Nickel	13,000	NA	NA	NA	NA	NA
Selenium	--	NA	NA	NA	NA	NA
Silver	--	NA	NA	NA	NA	NA
Thallium	--	NA	NA	NA	NA	NA
Zinc	--	NA	NA	NA	NA	NA
Total Cyanide	--	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) NA - Not analyzed.
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB49-001 8 - 10	SB49B-001 14 - 16	SB50-002 14 - 16	SB50-003 20 - 22	SB51-001 10 -12
TCL Volatiles (mg/kg)						
Acetone	100,000	0.029 U	0.031 U	1.9 U	0.037 UJ	0.03 U
Benzene	0.8	0.0059 U	0.0063 U	2.9	0.0073 UJ	3.7
Bromodichloromethane	3,000	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Bromoform	53	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Bromomethane	10	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
2-Butanone	--	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Carbon Disulfide	720	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Carbon Tetrachloride **	0.3	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Chlorobenzene	130	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Chloroethane +	1,500	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Chloroform **	0.3	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Chloromethane +	110	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Dibromochloromethane	1,300	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1-Dichloroethane	1,300	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,2-Dichloroethane	0.4	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1-Dichloroethene	1,500	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
cis-1,2-Dichloroethene	1,200	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
trans-1,2-Dichloroethene	3,100	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,2-Dichloropropane	15	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
cis-1,3-Dichloropropene	1.1	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
trans-1,3-Dichloropropene	1.1	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Ethylbenzene	400	0.0059 U	0.0063 U	30	0.56	5.8
2-Hexanone +	70	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
4-Methyl-2-Pentanone	--	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Methylene Chloride	13	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Methyl tert-butyl ether	8,800	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Styrene	1,500	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1,2,2-Tetrachloroethane +	2,000	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Tetrachloroethene	11	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Toluene	650	0.0059 U	0.0063 U	0.38 U	0.018 J	0.0094
1,1,1-Trichloroethane	1,200	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1,2-Trichloroethane	1,800	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Trichloroethene	5	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Vinyl Chloride **	0.28	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
m,p-Xylene*	320	NA	NA	NA	NA	NA
o-Xylene*	320	NA	NA	NA	NA	NA
Xylenes, Total	320	0.012 U	0.013 U	21	2.1 J	3.9

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) Shaded value exceeds Tier 1 screening level.
(5) J - Indicates an estimated value.
(6) -- Toxicity criteria not available for exposure route.
(7) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(8) NA - Not analyzed.
(9) * The "total xylenes" screening level was used because it is more conservative.
(10) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(11) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB49-001 8 - 10	SB49B-001 14 - 16	SB50-002 14 - 16	SB50-003 20 - 22	SB51-001 10 -12
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Bis(2-chloroethyl)ether **	0.2	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Bis(2-ethylhexyl)phthalate	31,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Bromophenyl phenyl ether	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Butyl benzyl phthalate	930	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Carbazole	--	0.42 U	0.41 U	0.46 U	0.45 U	4.8
4-Chloro-3-methylphenol	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Chloroaniline	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Chloronaphthalene	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Chlorophenol	53,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Dibenzofuran	--	0.42 U	0.41 U	1.2	0.45 U	3.4
1,2-Dichlorobenzene	560	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
1,3-Dichlorobenzene +	570	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
1,4-Dichlorobenzene	11,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
3,3´-Dichlorobenzidine	--	0.84 U	0.82 U	0.91 U	0.89 U	0.87 U
2,4-Dichlorophenol	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Diethyl phthalate	2,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Dimethyl phthalate +	1,300	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Di-n-butyl phthalate	2,300	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2,4-Dimethylphenol	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4,6-Dinitro-2-methylphenol	--	2 U	2 U	2.2 U	2.2 U	2.1 U
2,4-Dinitrophenol	--	2 U	2 U	2.2 U	2.2 U	2.1 U
2,4-Dinitrotoluene	--	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
2,6-Dinitrotoluene	--	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
Di-n-octyl phthalate	10,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachlorobenzene	1	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachlorobutadiene +	1,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachlorocyclopentadiene	10	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachloroethane	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Isophorone	4,600	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Methylnaphthalene	--	0.42 U	0.41 U	7.5	0.45 U	52
2-Methylphenol	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Methylphenol	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Nitroaniline +	73	2 U	2 U	2.2 U	2.2 U	2.1 U
3-Nitroaniline	--	2 U	2 U	2.2 U	2.2 U	2.1 U
4-Nitroaniline	--	2 U	2 U	2.2 U	2.2 U	2.1 U
Nitrobenzene	92	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
2-Nitrophenol	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Nitrophenol	--	2 U	2 U	2.2 U	2.2 U	2.1 U
N-Nitrosodi-n-propylamine	--	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
N-Nitrosodiphenylamine	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2, 2'-Oxybis(1-Chloropropane)	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Pentachlorophenol	--	2 U	2 U	2.2 U	2.2 U	2.1 U
Phenol	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
1,2,4-Trichlorobenzene	3,200	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2,4,5-Trichlorophenol	--	0.84 U	0.82 U	0.91 U	0.89 U	0.87 U
2,4,6-Trichlorophenol	200	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB49-001 8 - 10	SB49B-001 14 - 16	SB50-002 14 - 16	SB50-003 20 - 22	SB51-001 10 -12
PAHs (mg/kg)						
Acenaphthene	--	0.32	0.031 U	3	0.086	28
Acenaphthylene	--	0.19	0.031 U	0.44	0.034 U	4.1
Anthracene	--	0.44	0.031 U	2.6	0.18	20
Benzo(a)anthracene	--	1	0.035	3.9	0.42	17
Benzo(b)fluoranthene	--	0.78	0.031 U	2.4	0.27	8.2
Benzo(k)fluoranthene	--	0.74	0.032	3.8	0.38	7.4
Benzo(g,h,i)perylene	--	0.68	0.031 U	0.74	0.077	8
Benzo(a)pyrene	--	1	0.041	4.4	0.46	16
Chrysene	--	1	0.053	3.1	0.42	17
Dibenzo(a,h)anthracene	--	0.11	0.031 U	0.24	0.037	1.4
Fluoranthene	--	1.9	0.058	7.2	0.66	36
Fluorene	--	0.24	0.031 U	2.2	0.098	21
Indeno(1,2,3-cd)pyrene	--	0.55	0.031 U	0.89	0.098	6.2
Naphthalene	170	0.2	0.041	44	0.52	67
Phenanthrene	--	1.3	0.079	8.7	0.46	78
Pyrene	--	2.1	0.078	6.4	0.55	50
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	--	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	NA	NA	NA	NA	NA
Arsenic	750	NA	NA	NA	NA	NA
Barium	690,000	NA	NA	NA	NA	NA
Beryllium	1,300	NA	NA	NA	NA	NA
Cadmium	1,800	NA	NA	NA	NA	NA
Chromium	270	NA	NA	NA	NA	NA
Copper	--	NA	NA	NA	NA	NA
Lead	--	NA	NA	NA	NA	NA
Mercury	10	NA	NA	NA	NA	NA
Nickel	13,000	NA	NA	NA	NA	NA
Selenium	--	NA	NA	NA	NA	NA
Silver	--	NA	NA	NA	NA	NA
Thallium	--	NA	NA	NA	NA	NA
Zinc	--	NA	NA	NA	NA	NA
Total Cyanide	--	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) NA - Not analyzed.
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20
TCL Volatiles (mg/kg)							
Acetone	100,000	0.027 U	1.4 U	0.027 UJ	0.036 U	0.1	0.031 UJ
Benzene	0.8	0.0055 U	2.6	0.0089 J	0.0086	0.21	0.0062 UJ
Bromodichloromethane	3,000	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Bromoform	53	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Bromomethane	10	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
2-Butanone	--	0.011 U	0.55 U	0.011 UJ	0.015 U	0.023	0.012 UJ
Carbon Disulfide	720	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Carbon Tetrachloride	0.3	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Chlorobenzene	130	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Chloroethane +	1,500	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
Chloroform	0.3	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Chloromethane +	110	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Dibromochloromethane	1,300	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1-Dichloroethane	1,300	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,2-Dichloroethane	0.4	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1-Dichloroethene	1,500	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
cis-1,2-Dichloroethene	1,200	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
trans-1,2-Dichloroethene	3,100	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,2-Dichloropropane	15	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
cis-1,3-Dichloropropene	1.1	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
trans-1,3-Dichloropropene	1.1	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Ethylbenzene	400	0.0055 U	11	0.043 J	0.0073 U	1.2	0.0062 UJ
2-Hexanone +	70	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
4-Methyl-2-Pentanone	--	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
Methylene Chloride	13	0.011 U	0.55 U	0.011 UJ	0.018	0.035	0.026 J
Methyl tert-butyl ether	8,800	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Styrene	1,500	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1,2,2-Tetrachloroethane +	2,000	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Tetrachloroethene	11	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Toluene	650	0.0055 U	0.7	0.0097 J	0.0073 U	0.013	0.0062 UJ
1,1,1-Trichloroethane	1,200	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1,2-Trichloroethane	1,800	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Trichloroethene	5	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Vinyl Chloride	0.28	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
m,p-Xylene*	320	NA	NA	NA	NA	NA	NA
o-Xylene*	320	NA	NA	NA	NA	NA	NA
Xylenes, Total	320	0.024	9.8	0.055 J	0.015 U	1.7	0.012 UJ

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) Shaded value exceeds Tier 1 screening level.
(5) J - Indicates an estimated value.
(6) -- Toxicity criteria not available for exposure route.
(7) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(8) NA - Not analyzed.
(9) * The "total xylenes" screening level was used because it is more conservative.
(10) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20
TCL Semivolatiles (mg/kg)							
Bis(2-chloroethoxy)methane	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Bis(2-chloroethyl)ether **	0.2	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Bis(2-ethylhexyl)phthalate	31,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Bromophenyl phenyl ether	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Butyl benzyl phthalate	930	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Carbazole	--	0.41 U	0.4 U	0.39 U	0.41 U	5.1	0.4 U
4-Chloro-3-methylphenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Chloroaniline	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Chloronaphthalene	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Chlorophenol	53,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Chlorophenyl phenyl ether	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Dibenzofuran	--	0.82	0.91	0.39 U	0.41 U	4.9	0.4 U
1,2-Dichlorobenzene	560	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
1,3-Dichlorobenzene +	570	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
1,4-Dichlorobenzene	11,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
3,3´-Dichlorobenzidine	--	0.82 U	0.8 U	0.77 U	0.82 U	0.85 U	0.8 U
2,4-Dichlorophenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Diethyl phthalate	2,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Dimethyl phthalate +	1,300	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Di-n-butyl phthalate	2,300	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2,4-Dimethylphenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4,6-Dinitro-2-methylphenol	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
2,4-Dinitrophenol	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
2,4-Dinitrotoluene	--	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
2,6-Dinitrotoluene	--	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
Di-n-octyl phthalate	10,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachlorobenzene	1	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachlorobutadiene +	1,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachlorocyclopentadiene	10	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachloroethane	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Isophorone	4,600	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Methylnaphthalene	--	4.5	19	1.8	0.41 U	37	0.4 U
2-Methylphenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Methylphenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Nitroaniline +	73	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
3-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
4-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
Nitrobenzene	92	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
2-Nitrophenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Nitrophenol	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
N-Nitrosodiphenylamine	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Pentachlorophenol	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
Phenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
1,2,4-Trichlorobenzene	3,200	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2,4,5-Trichlorophenol	--	0.82 U	0.8 U	0.77 U	0.82 U	0.85 U	0.8 U
2,4,6-Trichlorophenol	200	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20
PAHs (mg/kg)							
Acenaphthene	--	2.4	3.7	0.19	2	16	0.11
Acenaphthylene	--	0.47	1	0.066	1.6	2.4	0.046
Anthracene	--	2.2	2.2	0.12	2.6	16	0.12
Benzo(a)anthracene	--	2.3	1.8	0.091	5.2	14	0.12
Benzo(b)fluoranthene	--	1.2	0.71	0.038	1.4	6.4	0.054
Benzo(k)fluoranthene	--	1.1	0.31	0.035	1.8	6.5	0.076
Benzo(g,h,i)perylene	--	0.57	0.18	0.029 U	1	1.6	0.042
Benzo(a)pyrene	--	1.7	1.3	0.07	4.8	11	0.099
Chrysene	--	2	1.7	0.096	6.8	15	0.14
Dibenzo(a,h)anthracene	--	0.11	0.1	0.029 U	0.5	1.2	0.03 U
Fluoranthene	--	3.7	2.7	0.15	7.8	24	0.22
Fluorene	--	2.5	3.6	0.2	4	19	0.13
Indeno(1,2,3-cd)pyrene	--	0.59	0.35	0.029 U	0.92	1.8	0.031
Naphthalene	170	6.1	22	2.3	1.5	41	0.24
Phenanthrene	--	7.6	11	0.65	14	57	0.48
Pyrene	--	4.2	4.5	0.22	12	27	0.27
PCBs (mg/kg)							
Aroclor 1016	--	NA	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA	NA
Total PCBs	--	NA	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)							
Antimony	--	NA	NA	NA	NA	NA	NA
Arsenic	750	NA	NA	NA	NA	NA	NA
Barium	690,000	NA	NA	NA	NA	NA	NA
Beryllium	1,300	NA	NA	NA	NA	NA	NA
Cadmium	1,800	NA	NA	NA	NA	NA	NA
Chromium	270	NA	NA	NA	NA	NA	NA
Copper	--	NA	NA	NA	NA	NA	NA
Lead	--	NA	NA	NA	NA	NA	NA
Mercury	10	NA	NA	NA	NA	NA	NA
Nickel	13,000	NA	NA	NA	NA	NA	NA
Selenium	--	NA	NA	NA	NA	NA	NA
Silver	--	NA	NA	NA	NA	NA	NA
Thallium	--	NA	NA	NA	NA	NA	NA
Zinc	--	NA	NA	NA	NA	NA	NA
Total Cyanide	--	NA	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) NA - Not analyzed.
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB54-001 8 - 10	SB54-002 14 - 16	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20
TCL Volatiles (mg/kg)						
Acetone	100,000	3.2 U	0.027 U	0.026	0.032 U	0.028 U
Benzene	0.8	5.7	0.0054 U	0.064	0.0064 U	0.0056 U
Bromodichloromethane	3,000	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Bromoform	53	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Bromomethane	10	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
2-Butanone	--	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Carbon Disulfide	720	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Carbon Tetrachloride **	0.3	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Chlorobenzene	130	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Chloroethane +	1,500	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Chloroform **	0.3	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Chloromethane +	110	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Dibromochloromethane	1,300	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,1-Dichloroethane	1,300	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,2-Dichloroethane **	0.4	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,1-Dichloroethene	1,500	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
cis-1,2-Dichloroethene	1,200	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
trans-1,2-Dichloroethene	3,100	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,2-Dichloropropane	15	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
cis-1,3-Dichloropropene	1.1	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
trans-1,3-Dichloropropene	1.1	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Ethylbenzene	400	25	0.0054 U	0.11	0.0064 U	0.0056 U
2-Hexanone +	70	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
4-Methyl-2-Pentanone	--	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Methylene Chloride	13	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Methyl tert-butyl ether	8,800	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Styrene	1,500	0.64 U	0.0054 U	0.016	0.0064 U	0.0056 U
1,1,2,2-Tetrachloroethane +	2,000	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Tetrachloroethene	11	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Toluene	650	0.84	0.0054 U	0.066	0.0064 U	0.0056 U
1,1,1-Trichloroethane	1,200	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,1,2-Trichloroethane	1,800	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Trichloroethene	5	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Vinyl Chloride **	0.28	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
m,p-Xylene*	320	NA	NA	NA	NA	NA
o-Xylene*	320	NA	NA	NA	NA	NA
Xylenes, Total	320	8.7	0.011 U	0.18	0.013 U	0.011 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) Shaded value exceeds Tier 1 screening level.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(10) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB54-001 8 - 10	SB54-002 14 - 16	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Bis(2-chloroethyl)ether **	0.2	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Bis(2-ethylhexyl)phthalate	31,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Bromophenyl phenyl ether	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Butyl benzyl phthalate	930	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Carbazole	--	0.51	0.4 U	0.39 U	0.4 U	0.4 U
4-Chloro-3-methylphenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Chloroaniline	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Chloronaphthalene	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Chlorophenol	53,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Dibenzofuran	--	1.9	0.4 U	0.39 U	0.4 U	0.4 U
1,2-Dichlorobenzene	560	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
1,3-Dichlorobenzene +	570	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
1,4-Dichlorobenzene	11,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
3,3´-Dichlorobenzidine	--	0.84 U	0.79 U	0.79 U	0.81 U	0.81 U
2,4-Dichlorophenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Diethyl phthalate	2,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Dimethyl phthalate +	1,300	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Di-n-butyl phthalate	2,300	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2,4-Dimethylphenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4,6-Dinitro-2-methylphenol	--	2 U	1.9 U	1.9 U	2 U	2 U
2,4-Dinitrophenol	--	2 U	1.9 U	1.9 U	2 U	2 U
2,4-Dinitrotoluene	--	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
2,6-Dinitrotoluene	--	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
Di-n-octyl phthalate	10,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachlorobenzene	1	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachlorobutadiene +	1,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachlorocyclopentadiene	10	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachloroethane	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Isophorone	4,600	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Methylnaphthalene	--	45	0.4 U	0.8	0.4 U	0.4 U
2-Methylphenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Methylphenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Nitroaniline +	73	2 U	1.9 U	1.9 U	2 U	2 U
3-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2 U
4-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2 U
Nitrobenzene	92	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
2-Nitrophenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Nitrophenol	--	2 U	1.9 U	1.9 U	2 U	2 U
N-Nitrosodi-n-propylamine	--	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
N-Nitrosodiphenylamine	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Pentachlorophenol	--	2 U	1.9 U	1.9 U	2 U	2 U
Phenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
1,2,4-Trichlorobenzene	3,200	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2,4,5-Trichlorophenol	--	0.84 U	0.79 U	0.79 U	0.81 U	0.81 U
2,4,6-Trichlorophenol	200	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB54-001 8 - 10	SB54-002 14 - 16	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20
PAHs (mg/kg)						
Acenaphthene	--	12	0.046	0.078	0.03 U	0.031 U
Acenaphthylene	--	4	0.03 U	0.089	0.03 U	0.031 U
Anthracene	--	7.4	0.046	0.099	0.03 U	0.031 U
Benzo(a)anthracene	--	5.4	0.037	0.098	0.03 U	0.031 U
Benzo(b)fluoranthene	--	2.6	0.03 U	0.054	0.03 U	0.031 U
Benzo(k)fluoranthene	--	2.1	0.03 U	0.05	0.03 U	0.031 U
Benzo(g,h,i)perylene	--	1.8	0.03 U	0.033	0.03 U	0.031 U
Benzo(a)pyrene	--	4.8	0.034	0.092	0.03 U	0.031 U
Chrysene	--	5.3	0.045	0.1	0.03 U	0.031 U
Dibenzo(a,h)anthracene	--	0.6	0.03 U	0.029 U	0.03 U	0.031 U
Fluoranthene	--	9.6	0.062	0.16	0.03 U	0.031 U
Fluorene	--	9.3	0.049	0.15	0.03 U	0.031 U
Indeno(1,2,3-cd)pyrene	--	1.6	0.03 U	0.029 U	0.03 U	0.031 U
Naphthalene	170	110	0.26	0.95	0.03 U	0.031 U
Phenanthrene	--	27	0.15	0.58	0.067	0.037
Pyrene	--	14	0.095	0.31	0.03 U	0.031 U
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	--	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	NA	NA	NA	NA	NA
Arsenic	750	NA	NA	NA	NA	NA
Barium	690,000	NA	NA	NA	NA	NA
Beryllium	1,300	NA	NA	NA	NA	NA
Cadmium	1,800	NA	NA	NA	NA	NA
Chromium	270	NA	NA	NA	NA	NA
Copper	--	NA	NA	NA	NA	NA
Lead	--	NA	NA	NA	NA	NA
Mercury	10	NA	NA	NA	NA	NA
Nickel	13,000	NA	NA	NA	NA	NA
Selenium	--	NA	NA	NA	NA	NA
Silver	--	NA	NA	NA	NA	NA
Thallium	--	NA	NA	NA	NA	NA
Zinc	--	NA	NA	NA	NA	NA
Total Cyanide	--	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) NA - Not analyzed.
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB57-002 16 - 18	SB58-001 12 - 14	SB58-002 16 - 18	SB59-001 6 - 8	SB59-002 16 - 18
TCL Volatiles (mg/kg)						
Acetone	100,000	0.028 U	0.047 U	0.031 UJ	0.028 U	0.033 U
Benzene	0.8	0.0057 U	0.0094 U	0.0061 UJ	0.031	0.0067 U
Bromodichloromethane	3,000	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Bromoform	53	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Bromomethane	10	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
2-Butanone	--	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
Carbon Disulfide	720	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Carbon Tetrachloride	0.3	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Chlorobenzene	130	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Chloroethane +	1,500	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
Chloroform	0.3	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Chloromethane +	110	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Dibromochloromethane	1,300	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1-Dichloroethane	1,300	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,2-Dichloroethane	0.4	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1-Dichloroethene	1,500	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
cis-1,2-Dichloroethene	1,200	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
trans-1,2-Dichloroethene	3,100	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,2-Dichloropropane	15	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
cis-1,3-Dichloropropene	1.1	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
trans-1,3-Dichloropropene	1.1	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Ethylbenzene	400	0.0057 U	0.0094 U	0.0061 UJ	0.071	0.0067 U
2-Hexanone +	70	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
4-Methyl-2-Pentanone	--	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
Methylene Chloride	13	0.011 U	0.019 U	0.012 UJ	0.017	0.016
Methyl tert-butyl ether	8,800	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Styrene	1,500	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1,2,2-Tetrachloroethane +	2,000	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Tetrachloroethene	11	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Toluene	650	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1,1-Trichloroethane	1,200	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1,2-Trichloroethane	1,800	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Trichloroethene	5	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Vinyl Chloride	0.28	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
m,p-Xylene*	320	NA	NA	NA	NA	NA
o-Xylene*	320	NA	NA	NA	NA	NA
Xylenes, Total	320	0.011 U	0.019 U	0.012 UJ	0.044	0.013 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) Shaded value exceeds Tier 1 screening level.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB57-002 16 - 18	SB58-001 12 - 14	SB58-002 16 - 18	SB59-001 6 - 8	SB59-002 16 - 18
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Bis(2-chloroethyl)ether **	0.2	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Bromophenyl phenyl ether	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Butyl benzyl phthalate	930	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Carbazole	--	0.39 U	6.8	0.41 U	0.39 U	0.38 U
4-Chloro-3-methylphenol	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Chloroaniline	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2-Chloronaphthalene	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2-Chlorophenol	53,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Dibenzofuran	--	0.39 U	4.6	0.41 U	0.39 U	0.38 U
1,2-Dichlorobenzene	560	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
1,3-Dichlorobenzene +	570	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
1,4-Dichlorobenzene	11,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
3,3´-Dichlorobenzidine	--	0.79 U	1.1 U	0.82 U	0.78 U	0.75 U
2,4-Dichlorophenol	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Diethyl phthalate	2,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Dimethyl phthalate +	1,300	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Di-n-butyl phthalate	2,300	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2,4-Dimethylphenol	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4,6-Dinitro-2-methylphenol	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
2,4-Dinitrophenol	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
2,4-Dinitrotoluene	--	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
2,6-Dinitrotoluene	--	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
Di-n-octyl phthalate	10,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachlorobenzene	1	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachlorobutadiene +	1,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachlorocyclopentadiene	10	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachloroethane	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Isophorone	4,600	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2-Methylnaphthalene	--	0.39 U	3.8	0.41 U	0.39 U	0.38 U
2-Methylphenol	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Methylphenol	--	0.39 U	2.2	0.41 U	0.39 U	0.38 U
2-Nitroaniline +	73	1.9 U	2.6 U	2 U	1.9 U	1.8 U
3-Nitroaniline	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
4-Nitroaniline	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
Nitrobenzene	92	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
2-Nitrophenol	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Nitrophenol	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
N-Nitrosodi-n-propylamine	--	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
N-Nitrosodiphenylamine	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Pentachlorophenol	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
Phenol	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
1,2,4-Trichlorobenzene	3,200	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2,4,5-Trichlorophenol	--	0.79 U	1.1 U	0.82 U	0.78 U	0.75 U
2,4,6-Trichlorophenol	200	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 4 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Residential Property
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB57-002 16 - 18	SB58-001 12 - 14	SB58-002 16 - 18	SB59-001 6 - 8	SB59-002 16 - 18
PAHs (mg/kg)						
Acenaphthene	--	0.03 U	4.3	0.072	0.029 U	0.028 U
Acenaphthylene	--	0.03 U	0.45	0.031 U	0.029 U	0.028 U
Anthracene	--	0.03 U	11	0.079	0.029 U	0.028 U
Benzo(a)anthracene	--	0.03 U	14	0.065	0.029 U	0.028 U
Benzo(b)fluoranthene	--	0.03 U	8.5	0.038	0.029 U	0.028 U
Benzo(k)fluoranthene	--	0.03 U	9.8	0.038	0.029 U	0.028 U
Benzo(g,h,i)perylene	--	0.03 U	3.2	0.031 U	0.029 U	0.028 U
Benzo(a)pyrene	--	0.03 U	12	0.059	0.029 U	0.028 U
Chrysene	--	0.037	12	0.061	0.029	0.028 U
Dibenzo(a,h)anthracene	--	0.03 U	1.6	0.031 U	0.029 U	0.028 U
Fluoranthene	--	0.056	27	0.14	0.029	0.028 U
Fluorene	--	0.03 U	6.2	0.088	0.029 U	0.028 U
Indeno(1,2,3-cd)pyrene	--	0.03 U	3.8	0.031 U	0.029 U	0.028 U
Naphthalene	170	0.054	4	0.39	0.087	0.028 U
Phenanthrene	--	0.11	27	0.24	0.089	0.075
Pyrene	--	0.057	23	0.11	0.05	0.028 U
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	--	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	NA	NA	NA	NA	NA
Arsenic	750	NA	NA	NA	NA	NA
Barium	690,000	NA	NA	NA	NA	NA
Beryllium	1,300	NA	NA	NA	NA	NA
Cadmium	1,800	NA	NA	NA	NA	NA
Chromium	270	NA	NA	NA	NA	NA
Copper	--	NA	NA	NA	NA	NA
Lead	--	NA	NA	NA	NA	NA
Mercury	10	NA	NA	NA	NA	NA
Nickel	13,000	NA	NA	NA	NA	NA
Selenium	--	NA	NA	NA	NA	NA
Silver	--	NA	NA	NA	NA	NA
Thallium	--	NA	NA	NA	NA	NA
Zinc	--	NA	NA	NA	NA	NA
Total Cyanide	--	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) NA - Not analyzed.
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-001 1-2	SB01-002 8-10	SP02-001 2-3	SP02-002 3-4	SP03-001 2-3
TCL Volatiles (mg/kg)						
Acetone	100,000	0.099	0.041 U	0.17	0.091	0.051
Benzene	2.2	0.0097 U	0.0082 U	0.055	0.015	0.0072 U
Bromodichloromethane	3,000	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Bromoform	140	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Bromomethane	3.9	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
2-Butanone	--	0.019 U	0.016 U	0.024 U	0.02	0.014 U
Carbon Disulfide	9	0.0097 U	0.0082 U	0.023	0.0081 U	0.0072 U
Carbon Tetrachloride	0.9	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Chlorobenzene	1.3	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Chloroethane +	94	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
Chloroform	0.76	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Chloromethane +	1.1	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Dibromochloromethane	1,300	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1-Dichloroethane	130	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,2-Dichloroethane	0.99	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1-Dichloroethene	300	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
cis-1,2-Dichloroethene	1,200	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
trans-1,2-Dichloroethene	3,100	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,2-Dichloropropane	0.5	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
cis-1,3-Dichloropropene	0.39	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
trans-1,3-Dichloropropene	0.39	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Ethylbenzene	58	0.0097 U	0.0082 U	0.044	0.049	0.0072 U
2-Hexanone +	0.72	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
4-Methyl-2-Pentanone	--	U	0.016 U	0.024 U	0.016 U	0.014 U
Methylene Chloride	34	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
Methyl tert-butyl ether	140	NA	NA	NA	NA	NA
Styrene	430	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1,2,2-Tetrachloroethane +	2,000	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Tetrachloroethene	28	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Toluene	42	0.0097 U	0.0082 U	0.036	0.0081 U	0.0072 U
1,1,1-Trichloroethane	1,200	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1,2-Trichloroethane	1,800	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Trichloroethene	12	0.0097 U	0.0082 U	0.021	0.0081 U	0.0072 U
Vinyl Chloride	1.1	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
m,p-Xylene*	320	0.0097 U	0.0082 U	0.028	0.0081 U	0.0072 U
o-Xylene*	320	0.0097 U	0.0082 U	0.025	0.012	0.0096
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-001 1-2	SB01-002 8-10	SP02-001 2-3	SP02-002 3-4	SP03-001 2-3
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Bis(2-chloroethyl)ether	0.66	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Bis(2-ethylhexyl)phthalate	31,000	0.37 U	0.45	0.37 U	0.38 U	0.49
4-Bromophenyl phenyl ether	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Butyl benzyl phthalate	930	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Carbazole	--	0.37 U	0.38 U	0.52	0.47	2.9
4-Chloro-3-methylphenol	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4-Chloroaniline	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Chloronaphthalene	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Chlorophenol	53,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4-Chlorophenyl phenyl ether	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Dibenzofuran	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,2-Dichlorobenzene	310	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,3-Dichlorobenzene +	570	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,4-Dichlorobenzene	340	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
3,3´-Dichlorobenzidine	--	0.74 U	0.76 U	0.75 U	0.75 U	0.71 U
2,4-Dichlorophenol	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Diethyl phthalate	2,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Dimethyl phthalate +	1,300	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Di-n-butyl phthalate	2,300	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2,4-Dimethylphenol	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4,6-Dinitro-2-methylphenol	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
2,4-Dinitrophenol	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
2,4-Dinitrotoluene	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2,6-Dinitrotoluene	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Di-n-octyl phthalate	10,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachlorobenzene	2.6	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachlorobutadiene +	180	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachlorocyclopentadiene	1.1	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachloroethane	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Isophorone	4,600	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Methylnaphthalene	--	0.37 U	0.38 U	0.85	0.38 U	0.57
2-Methylphenol	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4-Methylphenol	--	0.37 U	0.38 U	0.56	0.38 U	0.36 U
2-Nitroaniline +	7.5	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
3-Nitroaniline	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
4-Nitroaniline	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
Nitrobenzene	9.4	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Nitrophenol	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
4-Nitrophenol	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
N-Nitrosodi-n-propylamine	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
N-Nitrosodiphenylamine	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.016 U	0.016 U	0.015 U
Pentachlorophenol	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
Phenol	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,2,4-Trichlorobenzene	920	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2,4,5-Trichlorophenol	--	0.74 U	0.76 U	0.75 U	0.75 U	0.71 U
2,4,6-Trichlorophenol	540	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-001 1-2	SB01-002 8-10	SP02-001 2-3	SP02-002 3-4	SP03-001 2-3
PAHs (mg/kg)						
Acenaphthene	--	0.037	0.029 U	0.45	0.19	0.69
Acenaphthylene	--	0.032	0.029 U	1.2	0.13	0.32
Anthracene	--	0.27	0.16	1.5	0.3	0.75
Benzo(a)anthracene	--	0.34	0.34	3.5	0.43	2.5
Benzo(b)fluoranthene	--	0.44	0.32	2.2	0.36	1.8
Benzo(k)fluoranthene	--	0.44	0.26	2.7	0.39	1.6
Benzo(g,h,i)perylene	--	0.31	0.23	2	0.48	0.94
Benzo(a)pyrene	--	0.32	0.21	3.1	0.52	2.3
Chrysene	--	0.71	0.67	4.1	0.62	2.5
Dibenzo(a,h)anthracene	--	0.16	0.099	0.81	0.13	0.39
Fluoranthene	--	1.4	1.1	6.2	0.85	4.1
Fluorene	--	0.067	0.029 U	0.63	0.21	0.65
Indeno(1,2,3-cd)pyrene	--	0.31	0.2	2	0.35	0.93
Naphthalene	1.8	0.36	0.044	0.84	0.28	0.75
Phenanthrene	--	0.64	0.35	3.8	1	3.7
Pyrene	--	1.5	1.2	8.6	1.1	4.5
PCBs (mg/kg)						
Aroclor 1016	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1221	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1232	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1242	--	0.09 U	0.093 U	0.094	0.09 U	0.4
Aroclor 1248	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1254	--	0.18 U	0.19 U	0.18 U	0.18 U	0.33
Aroclor 1260	--	0.18 U	0.19 U	0.18 U	0.18 U	0.16 U
Total PCBs	--	0.810 U	0.845 U	0.814	0.810 U	1.226
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	0.97 UJ	1 UJ	1 UJ	1 UJ	1.1 UJ
Arsenic	25,000	8.1	9.2 J	6.5	2.5 J	7.2
Barium	870,000	61 J	47 J	82 J	19 J	68 J
Beryllium	44,000	0.75	0.87	1.1	0.63	1
Cadmium	59,000	0.91	0.54	0.79	0.52 U	1.1
Chromium	690	14 J	20 J	15 J	6.9 J	20 J
Copper	--	66 J	32 J	43 J	8.9 J	110 J
Lead	--	380 J	41	130 J	31	150 J
Mercury	52,000	0.35	0.28	0.15	0.035	0.076
Nickel	440,000	17 J	33 J	20 J	5.5 J	23 J
Selenium	--	0.97 U	1 U	1 U	1 U	1.1 U
Silver	--	0.97 U	1 U	1 U	1 U	1.1 U
Thallium	--	0.97 U	4.2	1	1 U	1.1 U
Zinc	--	160 J	70 J	90 J	23 J	290 J
Total Cyanide	--	0.31 U	0.27 U	0.26 U	0.26 U	0.23 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) PCBs - Polychlorinated Biphenyls.

(6) J - Indicates an estimated value.

(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP03-002 4-5	SB04-001 5-7	SP05-001 2-3	SP05-002 9-10	SP06-001 2-3
TCL Volatiles (mg/kg)						
Acetone	100,000	0.32	0.061 U	0.067	0.061	0.073
Benzene	2.2	0.017 U	0.012 U	0.015	0.012 U	0.079
Bromodichloromethane	3,000	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Bromoform	140	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Bromomethane	3.9	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
2-Butanone	--	0.072	0.025 U	0.024 U	0.023 U	0.025 U
Carbon Disulfide	9	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Carbon Tetrachloride	0.9	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Chlorobenzene	1.3	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Chloroethane +	94	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
Chloroform	0.76	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Chloromethane +	1.1	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Dibromochloromethane	1,300	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1-Dichloroethane	130	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,2-Dichloroethane	0.99	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1-Dichloroethene	300	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
cis-1,2-Dichloroethene	1,200	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
trans-1,2-Dichloroethene	3,100	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,2-Dichloropropane	0.5	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
cis-1,3-Dichloropropene	0.39	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
trans-1,3-Dichloropropene	0.39	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Ethylbenzene	58	0.017 U	0.012 U	0.012 U	0.012 U	0.15
2-Hexanone +	0.72	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
4-Methyl-2-Pentanone	--	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
Methylene Chloride	34	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
Methyl tert-butyl ether	140	NA	NA	NA	NA	NA
Styrene	430	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1,2,2-Tetrachloroethane +	2,000	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Tetrachloroethene	28	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Toluene	42	0.017 U	0.012 U	0.012 U	0.012 U	0.041
1,1,1-Trichloroethane	1,200	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1,2-Trichloroethane	1,800	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Trichloroethene	12	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Vinyl Chloride	1.1	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
m,p-Xylene*	320	0.017 U	0.012 U	0.012 U	0.012 U	0.11
o-Xylene*	320	0.017 U	0.012 U	0.012 U	0.012 U	0.12
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP03-002 4-5	SB04-001 5-7	SP05-001 2-3	SP05-002 9-10	SP06-001 2-3
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Bis(2-chloroethyl)ether	0.66	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Bis(2-ethylhexyl)phthalate	31,000	0.44 U	1.1	0.38 U	0.39 U	0.38 U
4-Bromophenyl phenyl ether	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Butyl benzyl phthalate	930	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Carbazole	--	0.44 U	0.41 U	0.67	0.39 U	2.2
4-Chloro-3-methylphenol	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4-Chloroaniline	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Chloronaphthalene	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Chlorophenol	53,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4-Chlorophenyl phenyl ether	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Dibenzofuran	--	0.44 U	0.41 U	0.38 U	0.39 U	0.4
1,2-Dichlorobenzene	310	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
1,3-Dichlorobenzene +	570	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
1,4-Dichlorobenzene	340	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
3,3´-Dichlorobenzidine	--	0.89 U	0.82 U	0.76 U	0.78 U	0.76 U
2,4-Dichlorophenol	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Diethyl phthalate	2,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Dimethyl phthalate +	1,300	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Di-n-butyl phthalate	2,300	0.44 U	0.45	0.38 U	0.39 U	0.38 U
2,4-Dimethylphenol	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4,6-Dinitro-2-methylphenol	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
2,4-Dinitrophenol	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
2,4-Dinitrotoluene	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2,6-Dinitrotoluene	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Di-n-octyl phthalate	10,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachlorobenzene	2.6	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachlorobutadiene +	180	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachlorocyclopentadiene	1.1	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachloroethane	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Isophorone	4,600	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Methylnaphthalene	--	0.44 U	0.41 U	0.54	0.39 U	2.7
2-Methylphenol	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4-Methylphenol	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Nitroaniline +	7.5	2.1 U	2 U	1.8 U	1.9 U	1.8 U
3-Nitroaniline	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
4-Nitroaniline	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
Nitrobenzene	9.4	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Nitrophenol	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
4-Nitrophenol	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
N-Nitrosodi-n-propylamine	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
N-Nitrosodiphenylamine	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	--	0.019 U	0.017 U	0.016 U	0.017 U	0.016 U
Pentachlorophenol	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
Phenol	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
1,2,4-Trichlorobenzene	920	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2,4,5-Trichlorophenol	--	0.89 U	0.82 U	0.76 U	0.78 U	0.76 U
2,4,6-Trichlorophenol	540	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP03-002 4-5	SB04-001 5-7	SP05-001 2-3	SP05-002 9-10	SP06-001 2-3
PAHs (mg/kg)						
Acenaphthene	--	0.034 U	0.17	0.84	0.03 U	1.4
Acenaphthylene	--	0.034 U	0.13	1.3	0.03 U	0.59
Anthracene	--	0.034 U	0.7	1.1	0.03 U	1.7
Benzo(a)anthracene	--	0.034 U	0.78	3	0.03 U	3.3
Benzo(b)fluoranthene	--	0.034 U	1.1	1.9	0.03 U	2
Benzo(k)fluoranthene	--	0.034 U	0.91	2.5	0.03 U	2.4
Benzo(g,h,i)perylene	--	0.034 U	1.2	1.2	0.03 U	1.4
Benzo(a)pyrene	--	0.034 U	0.75	3.3	0.03 U	3.3
Chrysene	--	0.034 U	1.7	3.5	0.03 U	4.2
Dibenzo(a,h)anthracene	--	0.034 U	0.41	0.55	0.03 U	0.71
Fluoranthene	--	0.034 U	2.4	4.3	0.03 U	7.2
Fluorene	--	0.034 U	0.31	0.77	0.03 U	1.5
Indeno(1,2,3-cd)pyrene	--	0.034 U	0.74	1.3	0.03 U	1.6
Naphthalene	1.8	0.034 U	0.15	0.22	0.03 U	4.2
Phenanthrene	--	0.034 U	1.5	2.9	0.03 U	7
Pyrene	--	0.034 U	3.4	6.6	0.03 U	6.1
PCBs (mg/kg)						
Aroclor 1016	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1221	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1232	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1242	--	0.1 U	5.8	0.092 U	0.095 U	0.29
Aroclor 1248	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1254	--	0.2 U	3.4	0.19 U	0.19 U	0.29
Aroclor 1260	--	0.2 U	0.19 U	0.19 U	0.19 U	0.18 U
Total PCBs	--	0.900 U	9.774	0.840 U	0.855 U	1.128
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.2 UJ	1.4 J	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	25,000	3.6 J	8.1 J	9	5.8 J	7.3
Barium	870,000	58 J	260 J	78 J	18 J	160 J
Beryllium	44,000	1.3	0.72	1.1	0.97	0.95
Cadmium	59,000	0.6 U	3	1.1	0.55 U	1.2
Chromium	690	20 J	570 J	14 J	15 J	13 J
Copper	--	18 J	220 J	140 J	19 J	35 J
Lead	--	17	280	160 J	13	450 J
Mercury	52,000	0.031 U	0.31	0.32	0.027 U	0.22
Nickel	440,000	24 J	76 J	20 J	23 J	17 J
Selenium	--	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U
Silver	--	1.2 U	1.3	1.1 U	1.1 U	1.1 U
Thallium	--	1.2	1.2 U	1.1 U	1.5	1.1 U
Zinc	--	63 J	780 J	240 J	37 J	320 J
Total Cyanide	--	0.31 U	0.33 U	0.27 U	0.31 U	0.25 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) J - Indicates an estimated value.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP06-002 3-4	SP06-003 8-10	SP07-001 1-2	SP07-002 9-10	SP07-003 16-17
TCL Volatiles (mg/kg)						
Acetone	100,000	0.16	0.092 U	0.06 U	0.068 U	0.046 U
Benzene	2.2	0.78	0.056	0.012 U	0.014 U	0.0093 U
Bromodichloromethane	3,000	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Bromoform	140	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Bromomethane	3.9	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
2-Butanone	--	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Carbon Disulfide	9	0.025 U	0.018 U	0.04	0.014 U	0.0093 U
Carbon Tetrachloride	0.9	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Chlorobenzene	1.3	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Chloroethane +	94	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Chloroform	0.76	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Chloromethane +	1.1	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Dibromochloromethane	1,300	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1-Dichloroethane	130	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,2-Dichloroethane	0.99	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1-Dichloroethene	300	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
cis-1,2-Dichloroethene	1,200	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
trans-1,2-Dichloroethene	3,100	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,2-Dichloropropane	0.5	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
cis-1,3-Dichloropropene	0.39	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
trans-1,3-Dichloropropene	0.39	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Ethylbenzene	58	3	0.38	0.013	0.014 U	0.0093 U
2-Hexanone +	0.72	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
4-Methyl-2-Pentanone	--	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Methylene Chloride	34	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Methyl tert-butyl ether	140	NA	NA	NA	NA	NA
Styrene	430	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1,2,2-Tetrachloroethane +	2,000	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Tetrachloroethene	28	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Toluene	42	0.79	0.044	0.012	0.014 U	0.0093 U
1,1,1-Trichloroethane	1,200	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1,2-Trichloroethane	1,800	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Trichloroethene	12	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Vinyl Chloride	1.1	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
m,p-Xylene*	320	3	0.098	0.016	0.014 U	0.0093 U
o-Xylene*	320	2	0.17	0.012 U	0.014 U	0.0093 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP06-002 3-4	SP06-003 8-10	SP07-001 1-2	SP07-002 9-10	SP07-003 16-17
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Bis(2-chloroethyl)ether **	0.66	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Bromophenyl phenyl ether	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Butyl benzyl phthalate	930	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Carbazole	--	0.39 U	1.4	0.47	0.38 U	0.39 U
4-Chloro-3-methylphenol	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Chloroaniline	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Chloronaphthalene	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Chlorophenol	53,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Dibenzofuran	--	1.3	1.6	0.37 U	0.38 U	0.39 U
1,2-Dichlorobenzene	310	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
1,3-Dichlorobenzene +	570	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
1,4-Dichlorobenzene	340	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
3,3´-Dichlorobenzidine	--	0.78 U	2.2 U	0.74 U	0.76 U	0.79 U
2,4-Dichlorophenol	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Diethyl phthalate	2,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Dimethyl phthalate +	1,300	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Di-n-butyl phthalate	2,300	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2,4-Dimethylphenol	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
2,4-Dinitrophenol	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
2,4-Dinitrotoluene	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2,6-Dinitrotoluene	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Di-n-octyl phthalate	10,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachlorobenzene	2.6	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachlorobutadiene +	180	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachlorocyclopentadiene	1.1	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachloroethane	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Isophorone	4,600	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Methylnaphthalene	--	20	17	0.4	0.38 U	0.39 U
2-Methylphenol	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Methylphenol	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Nitroaniline +	7.5	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
3-Nitroaniline	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
4-Nitroaniline	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
Nitrobenzene	9.4	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Nitrophenol	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
4-Nitrophenol	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
N-Nitrosodiphenylamine	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.046 U	0.016 U	0.016 U	0.017 U
Pentachlorophenol	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
Phenol	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
1,2,4-Trichlorobenzene	920	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2,4,5-Trichlorophenol	--	0.78 U	2.2 U	0.74 U	0.76 U	0.79 U
2,4,6-Trichlorophenol	540	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) ** Several values exceeded TACO screening level but were consistently non-detect, so no values were shaded.

(6) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).

(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP06-002 3-4	SP06-003 8-10	SP07-001 1-2	SP07-002 9-10	SP07-003 16-17
PAHs (mg/kg)						
Acenaphthene	--	10	4.5	0.28 U	0.029 U	0.03 U
Acenaphthylene	--	2	4.2	0.39	0.029 U	0.03 U
Anthracene	--	9.6	4.9	0.54	0.029 U	0.03 U
Benzo(a)anthracene	--	3.9	4.2	1.5	0.029 U	0.03 U
Benzo(b)fluoranthene	--	1.1	1.3	1.3	0.029 U	0.03 U
Benzo(k)fluoranthene	--	0.89	1.1	0.98	0.029 U	0.03 U
Benzo(g,h,i)perylene	--	1.2	0.82 U	0.77	0.029 U	0.03 U
Benzo(a)pyrene	--	2.7	0.97	1.6	0.029 U	0.03 U
Chrysene	--	5.1	4.3	1.6	0.029 U	0.03 U
Dibenzo(a,h)anthracene	--	0.52	0.82 U	0.28 U	0.029 U	0.03 U
Fluoranthene	--	9.1	6.8	2.5	0.029 U	0.03 U
Fluorene	--	10	6.5	0.28 U	0.029 U	0.03 U
Indeno(1,2,3-cd)pyrene	--	1.2	0.82 U	0.71	0.029 U	0.03 U
Naphthalene	1.8	27	13	0.28	0.029 U	0.03 U
Phenanthrene	--	34	21	2.1	0.029 U	0.03 U
Pyrene	--	15	10	2.8	0.029 U	0.03 U
PCBs (mg/kg)						
Aroclor 1016	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1221	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1232	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1242	--	0.094 U	0.09 U	1.5	0.09 U	0.096 U
Aroclor 1248	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1254	--	0.19 U	0.18 U	0.91 U	0.18 U	0.19 U
Aroclor 1260	--	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U
Total PCBs	--	0.850 U	0.810 U	2.954	0.810 U	0.860 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.1 UJ	NA	1 UJ	1.1 UJ	1.1 UJ
Arsenic	25,000	6.5 J	NA	4.4	7.7 J	8.1 J
Barium	870,000	67 J	NA	370 J	38 J	98 J
Beryllium	44,000	1	NA	5.7	0.98	1.2
Cadmium	59,000	0.98	NA	1.4	0.54 U	0.57 U
Chromium	690	12 J	NA	120 J	17 J	21 J
Copper	--	71 J	NA	400 J	28 J	24 J
Lead	--	190	NA	180 J	55	16
Mercury	52,000	0.15	NA	0.091	0.029 U	0.032 U
Nickel	440,000	17 J	NA	17 J	33 J	31 J
Selenium	--	1.1 U	NA	2.8	1.1 U	1.1 U
Silver	--	1.1 U	NA	1 U	1.1 U	1.1 U
Thallium	--	1.1 U	NA	1 U	1.4	2.1
Zinc	--	190 J	NA	180 J	69 J	39 J
Total Cyanide	--	0.26 U	NA	0.26 U	0.27 U	0.29 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) J - Indicates an estimated value.

(8) NA - Not analyzed.

(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP08-001 0-0.5	SP08-002 7-8	SB09-001 3-5	SB10-001 1-2	SP10-002 6-7
TCL Volatiles (mg/kg)						
Acetone	100,000	0.047 U	0.097	0.12	0.062	0.071 U
Benzene	2.2	0.0095 U	0.011 U	0.19	0.0092	3.6
Bromodichloromethane	3,000	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Bromoform	140	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Bromomethane	3.9	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
2-Butanone	--	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Carbon Disulfide	9	0.0095 U	0.011 U	0.013	0.0074 U	0.014 U
Carbon Tetrachloride	0.9	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Chlorobenzene	1.3	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Chloroethane +	94	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Chloroform	0.76	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Chloromethane +	1.1	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Dibromochloromethane	1,300	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1-Dichloroethane	130	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,2-Dichloroethane	0.99	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1-Dichloroethene	300	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
cis-1,2-Dichloroethene	1,200	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
trans-1,2-Dichloroethene	3,100	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,2-Dichloropropane	0.5	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
cis-1,3-Dichloropropene	0.39	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
trans-1,3-Dichloropropene	0.39	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Ethylbenzene	58	0.0095 U	0.011 U	0.07	0.014	8.2
2-Hexanone +	0.72	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
4-Methyl-2-Pentanone	--	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Methylene Chloride	34	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Methyl tert-butyl ether	140	NA	NA	NA	NA	NA
Styrene	430	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1,2,2-Tetrachloroethane +	2,000	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Tetrachloroethene	28	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Toluene	42	0.0095 U	0.011 U	0.011 U	0.0087	0.014 U
1,1,1-Trichloroethane	1,200	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1,2-Trichloroethane	1,800	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Trichloroethene	12	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Vinyl Chloride	1.1	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
m,p-Xylene*	320	0.0095 U	0.011 U	0.013	0.021	5
o-Xylene*	320	0.0095 U	0.011 U	0.087	0.014	1.4
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) Shaded value exceeds Tier 1 screening level.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP08-001 0-0.5	SP08-002 7-8	SB09-001 3-5	SB10-001 1-2	SP10-002 6-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Bis(2-chloroethyl)ether	0.66	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	2.9	0.4 U	0.75	2.1	0.39 U
4-Bromophenyl phenyl ether	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Butyl benzyl phthalate	930	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Carbazole	--	0.41 U	0.4 U	3.7	1.1	0.39 U
4-Chloro-3-methylphenol	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4-Chloroaniline	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Chloronaphthalene	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Chlorophenol	53,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Dibenzofuran	--	0.41 U	0.4 U	0.65	2	1.2
1,2-Dichlorobenzene	310	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
1,3-Dichlorobenzene +	570	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
1,4-Dichlorobenzene	340	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
3,3´-Dichlorobenzidine	--	0.81 U	0.8 U	0.75 U	0.72 U	0.77 U
2,4-Dichlorophenol	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Diethyl phthalate	2,000	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Dimethyl phthalate +	1,300	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Di-n-butyl phthalate	2,300	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2,4-Dimethylphenol	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4,6-Dinitro-2-methylphenol	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrophenol	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2,6-Dinitrotoluene	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Di-n-octyl phthalate	10,000	0.71	0.4 U	0.37 U	0.36 U	0.39 U
Hexachlorobenzene	2.6	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Hexachlorobutadiene +	180	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Hexachlorocyclopentadiene	1.1	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Hexachloroethane	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Isophorone	4,600	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Methylnaphthalene	--	0.41 U	0.4 U	0.37 U	27	23
2-Methylphenol	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4-Methylphenol	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Nitroaniline +	7.5	2 U	1.9 U	1.8 U	1.8 U	1.9 U
3-Nitroaniline	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
4-Nitroaniline	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
Nitrobenzene	9.4	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Nitrophenol	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
4-Nitrophenol	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
N-Nitrosodiphenylamine	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.017 U	0.016 U	0.015 U	0.016 U
Pentachlorophenol	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
Phenol	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
1,2,4-Trichlorobenzene	920	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2,4,5-Trichlorophenol	--	0.81 U	0.8 U	0.75 U	0.72 U	0.77 U
2,4,6-Trichlorophenol	540	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP08-001 0-0.5	SP08-002 7-8	SB09-001 3-5	SB10-001 1-2	SP10-002 6-7
PAHs (mg/kg)						
Acenaphthene	--	0.031 U	0.003 U	0.51	2.4	8.6
Acenaphthylene	--	0.28	0.0052	0.36	1.9	5.1
Anthracene	--	0.4	0.011	2.3	7.1	8.6
Benzo(a)anthracene	--	1.4	0.029	3.3	1.6	1.7
Benzo(b)fluoranthene	--	1.2	0.035	2.3	3.5	2.5
Benzo(k)fluoranthene	--	0.9	0.027	2.3	3.4	1.7
Benzo(g,h,i)perylene	--	0.9	0.015	0.74	3.6	1.6
Benzo(a)pyrene	--	1.7	0.031	1.6	3.9	2.2
Chrysene	--	1.5	0.035	3.8	9	11
Dibenzo(a,h)anthracene	--	0.33	0.006	0.31	1.2	0.59
Fluoranthene	--	1.7	0.043	5.3	11	6.8
Fluorene	--	0.078	0.0052	0.92	6.9	6.7
Indeno(1,2,3-cd)pyrene	--	0.83	0.014	0.69	2.6	1.1
Naphthalene	1.8	0.041	0.004	0.52	10	18
Phenanthrene	--	1	0.032	5.2	24	26
Pyrene	--	2.1	0.056	5.1	14	14
PCBs (mg/kg)						
Aroclor 1016	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1221	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1232	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1242	--	0.37	0.098 U	0.39	3.9	0.094 U
Aroclor 1248	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1254	--	0.28	0.2 U	0.41	3.3	0.19 U
Aroclor 1260	--	0.2 U	0.2 U	0.18 U	0.18 U	0.19 U
Total PCBs	--	1.246	0.890 U	1.332	7.740	0.850 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.2 UJ	1.1 UJ	1 UJ	1.1 J	1.1 UJ
Arsenic	25,000	7.2	2.8 J	7.8 J	7.2	13 J
Barium	870,000	76 J	31 J	140 J	140 J	80 J
Beryllium	44,000	1.1	1.1	0.6	0.84	1.1
Cadmium	59,000	0.75	0.54 U	1.1	1.9	0.55 U
Chromium	690	15 J	18 J	98 J	26 J	18 J
Copper	--	50 J	22 J	68 J	120 J	32 J
Lead	--	200 J	18	340	260 J	25
Mercury	52,000	1.4	0.033	0.21	0.3	0.027 U
Nickel	440,000	19 J	24 J	38 J	25 J	35 J
Selenium	--	1.2 U	1.1 U	1 U	0.9 U	1.1 U
Silver	--	1.2 U	1.1 U	1 U	0.9 U	1.1 U
Thallium	--	1.2 U	1.5	1 U	1.3	2
Zinc	--	170 J	42 J	240 J	830 J	53 J
Total Cyanide	--	0.33 U	0.3 U	0.29 U	0.36	0.31 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) J - Indicates an estimated value.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP10-003 13-14	SP11-001 0-0.5	SP11-002 9-10	SP13-001 1-2	SP13-002 6-7
TCL Volatiles (mg/kg)						
Acetone	100,000	0.053 U	0.057 U	0.078	0.062	0.12
Benzene	2.2	0.92	0.011 U	0.013 U	0.012 U	0.012 U
Bromodichloromethane	3,000	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Bromoform	140	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Bromomethane	3.9	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
2-Butanone	--	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Carbon Disulfide	9	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Carbon Tetrachloride	0.9	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Chlorobenzene	1.3	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Chloroethane +	94	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Chloroform	0.76	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Chloromethane +	1.1	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Dibromochloromethane	1,300	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1-Dichloroethane	130	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,2-Dichloroethane	0.99	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1-Dichloroethene	300	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
cis-1,2-Dichloroethene	1,200	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
trans-1,2-Dichloroethene	3,100	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,2-Dichloropropane	0.5	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
cis-1,3-Dichloropropene	0.39	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
trans-1,3-Dichloropropene	0.39	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Ethylbenzene	58	9	0.011 U	0.013 U	0.012 U	0.012 U
2-Hexanone +	0.72	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
4-Methyl-2-Pentanone	--	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Methylene Chloride	34	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Methyl tert-butyl ether	140	NA	NA	NA	NA	NA
Styrene	430	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1,2,2-Tetrachloroethane +	2,000	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Tetrachloroethene	28	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Toluene	42	0.6	0.011 U	0.013 U	0.012 U	0.012 U
1,1,1-Trichloroethane	1,200	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1,2-Trichloroethane	1,800	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Trichloroethene	12	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Vinyl Chloride	1.1	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
m,p-Xylene*	320	3.8	0.011 U	0.013 U	0.012 U	0.012 U
o-Xylene*	320	12	0.011 U	0.013 U	0.012 U	0.012 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP10-003 13-14	SP11-001 0-0.5	SP11-002 9-10	SP13-001 1-2	SP13-002 6-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Bis(2-chloroethyl)ether	0.66	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Bis(2-ethylhexyl)phthalate	31,000	0.38 U	1.1	0.38 U	0.36 U	0.4 U
4-Bromophenyl phenyl ether	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Butyl benzyl phthalate	930	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Carbazole	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Chloro-3-methylphenol	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Chloroaniline	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Chloronaphthalene	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Chlorophenol	53,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Chlorophenyl phenyl ether	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Dibenzofuran	--	0.75	0.38 U	0.38 U	0.36 U	0.4 U
1,2-Dichlorobenzene	310	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
1,3-Dichlorobenzene +	570	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
1,4-Dichlorobenzene	340	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
3,3´-Dichlorobenzidine	--	0.77 U	0.76 U	0.77 U	0.73 U	0.8 U
2,4-Dichlorophenol	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Diethyl phthalate	2,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Dimethyl phthalate +	1,300	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Di-n-butyl phthalate	2,300	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2,4-Dimethylphenol	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrophenol	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrotoluene	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2,6-Dinitrotoluene	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Di-n-octyl phthalate	10,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachlorobenzene	2.6	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachlorobutadiene +	180	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachlorocyclopentadiene	1.1	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachloroethane	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Isophorone	4,600	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Methylnaphthalene	--	20	1.1	0.42	0.86	0.53
2-Methylphenol	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Methylphenol	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Nitroaniline +	7.5	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
3-Nitroaniline	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
4-Nitroaniline	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
Nitrobenzene	9.4	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Nitrophenol	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
4-Nitrophenol	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
N-Nitrosodiphenylamine	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.016 U	0.015 U	0.017 U
Pentachlorophenol	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
Phenol	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
1,2,4-Trichlorobenzene	920	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2,4,5-Trichlorophenol	--	0.77 U	0.76 U	0.77 U	0.73 U	0.8 U
2,4,6-Trichlorophenol	540	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP10-003 13-14	SP11-001 0-0.5	SP11-002 9-10	SP13-001 1-2	SP13-002 6-7
PAHs (mg/kg)						
Acenaphthene	--	5.5	1.1	0.046	0.16	0.056
Acenaphthylene	--	3.7	0.86	0.029 U	0.069	0.03 U
Anthracene	--	3.1	2.5	0.029 U	0.13	0.03 U
Benzo(a)anthracene	--	0.37	0.9	0.029 U	0.037	0.03 U
Benzo(b)fluoranthene	--	0.42	1.7	0.029 U	0.13	0.03 U
Benzo(k)fluoranthene	--	0.49	1.6	0.029 U	0.11	0.03 U
Benzo(g,h,i)perylene	--	0.51	0.62	0.029 U	0.2	0.03 U
Benzo(a)pyrene	--	0.45	1.8	0.029 U	0.094	0.03 U
Chrysene	--	2.2	3.1	0.032	0.26	0.03 U
Dibenzo(a,h)anthracene	--	0.13	0.3	0.029 U	0.084	0.03 U
Fluoranthene	--	1.8	3.7	0.037	0.21	0.03 U
Fluorene	--	3.8	1.3	0.029 U	0.15	0.03 U
Indeno(1,2,3-cd)pyrene	--	0.26	0.44	0.029 U	0.14	0.03 U
Naphthalene	1.8	27	1.5	0.73	0.83	0.99
Phenanthrene	--	9.3	6.5	0.092	0.34	0.04
Pyrene	--	3	7.8	0.063	0.28	0.03 U
PCBs (mg/kg)						
Aroclor 1016	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1221	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1232	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1242	--	0.09 U	0.49	0.094 U	0.98	0.097 U
Aroclor 1248	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1254	--	0.18 U	0.45	0.19 U	0.9 U	0.19 U
Aroclor 1260	--	0.18 U	0.18 U	0.19 U	0.18 U	0.19 U
Total PCBs	--	0.810 U	1.488	0.850 U	2.420	0.865 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.1 UJ	1.1 UJ	1.1 UJ	1 J	1.1 UJ
Arsenic	25,000	7.5 J	5.4	11 J	7.3	9.4 J
Barium	870,000	83 J	120 J	100 J	86 J	86 J
Beryllium	44,000	1.1	1.1	1.1	0.79	1.2
Cadmium	59,000	0.55 U	1.2	0.56 U	0.7	0.57 U
Chromium	690	19 J	16 J	20 J	14 J	20 J
Copper	--	31 J	90 J	32 J	40 J	34 J
Lead	--	18	140 J	19	250 J	20
Mercury	52,000	0.028	0.1	0.028 U	2.9	0.03
Nickel	440,000	39 J	26 J	37 J	19 J	34 J
Selenium	--	1.1 U	1.1 U	1.1 U	1 U	1.1 U
Silver	--	1.1 U	1.1 U	1.1 U	1 U	1.1 U
Thallium	--	2.5	1.5	2	1.5	2
Zinc	--	49 J	220 J	47 J	94 J	45 J
Total Cyanide	--	0.25 U	0.89	0.27 U	0.26 U	0.3 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) J - Indicates an estimated value.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-003 15-16	SB14-001 1-2	SB14-002 6-8	SB15-001 0-0.5	SB15-002 6-8
TCL Volatiles (mg/kg)						
Acetone	100,000	0.055 U	0.051 U	0.078	0.037 U	0.051 U
Benzene	2.2	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Bromodichloromethane	3,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Bromoform	140	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Bromomethane	3.9	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
2-Butanone	--	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Carbon Disulfide	9	0.011 U	0.01 U	0.015 U	0.0074 U	0.018
Carbon Tetrachloride	0.9	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Chlorobenzene	1.3	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Chloroethane +	94	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Chloroform	0.76	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Chloromethane +	1.1	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Dibromochloromethane	1,300	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1-Dichloroethane	130	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,2-Dichloroethane	0.99	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1-Dichloroethene	300	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
cis-1,2-Dichloroethene	1,200	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
trans-1,2-Dichloroethene	3,100	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,2-Dichloropropane	0.5	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
cis-1,3-Dichloropropene	0.39	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
trans-1,3-Dichloropropene	0.39	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Ethylbenzene	58	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
2-Hexanone +	0.72	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
4-Methyl-2-Pentanone	--	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Methylene Chloride	34	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Methyl tert-butyl ether	140	NA	NA	NA	NA	NA
Styrene	430	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1,2,2-Tetrachloroethane +	2,000	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Tetrachloroethene	28	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Toluene	42	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1,1-Trichloroethane	1,200	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1,2-Trichloroethane	1,800	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Trichloroethene	12	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Vinyl Chloride	1.1	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
m,p-Xylene*	320	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
o-Xylene*	320	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-003 15-16	SB14-001 1-2	SB14-002 6-8	SB15-001 0-0.5	SB15-002 6-8
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Bis(2-chloroethyl)ether	0.66	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	0.49	0.42 U	0.58	0.39 U
4-Bromophenyl phenyl ether	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Butyl benzyl phthalate	930	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Carbazole	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Chloro-3-methylphenol	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Chloroaniline	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Chloronaphthalene	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Chlorophenol	53,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Dibenzofuran	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,2-Dichlorobenzene	310	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,3-Dichlorobenzene +	570	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,4-Dichlorobenzene	340	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
3,3´-Dichlorobenzidine	--	0.78 U	0.71 U	0.84 U	0.81 U	0.78 U
2,4-Dichlorophenol	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Diethyl phthalate	2,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Dimethyl phthalate +	1,300	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Di-n-butyl phthalate	2,300	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2,4-Dimethylphenol	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.7 U	2 U	2 U	1.9 U
2,4-Dinitrophenol	--	1.9 U	1.7 U	2 U	2 U	1.9 U
2,4-Dinitrotoluene	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2,6-Dinitrotoluene	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Di-n-octyl phthalate	10,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachlorobenzene	2.6	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachlorobutadiene +	180	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachlorocyclopentadiene	1.1	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachloroethane	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Isophorone	4,600	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Methylnaphthalene	--	0.79	0.35 U	0.42 U	0.4 U	0.39 U
2-Methylphenol	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Methylphenol	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Nitroaniline +	7.5	1.9 U	1.7 U	2 U	2 U	1.9 U
3-Nitroaniline	--	1.9 U	1.7 U	2 U	2 U	1.9 U
4-Nitroaniline	--	1.9 U	1.7 U	2 U	2 U	1.9 U
Nitrobenzene	9.4	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Nitrophenol	--	1.9 U	1.7 U	2 U	2 U	1.9 U
4-Nitrophenol	--	1.9 U	1.7 U	2 U	2 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
N-Nitrosodiphenylamine	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.015 U	0.018 U	0.017 U	0.017 U
Pentachlorophenol	--	1.9 U	1.7 U	2 U	2 U	1.9 U
Phenol	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,2,4-Trichlorobenzene	920	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2,4,5-Trichlorophenol	--	0.78 U	0.71 U	0.84 U	0.81 U	0.78 U
2,4,6-Trichlorophenol	540	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-003 15-16	SB14-001 1-2	SB14-002 6-8	SB15-001 0-0.5	SB15-002 6-8
PAHs (mg/kg)						
Acenaphthene	--	0.077	0.15	0.032 U	0.031 U	0.03 U
Acenaphthylene	--	0.03 U	0.18	0.032 U	0.13	0.03 U
Anthracene	--	0.03 U	0.25	0.032 U	0.031 U	0.03 U
Benzo(a)anthracene	--	0.03 U	3.5	0.032 U	0.15	0.03 U
Benzo(b)fluoranthene	--	0.03 U	1.8	0.032 U	0.13	0.03 U
Benzo(k)fluoranthene	--	0.03 U	1.6	0.032 U	0.13	0.03 U
Benzo(g,h,i)perylene	--	0.03 U	0.66	0.032 U	0.17	0.03 U
Benzo(a)pyrene	--	0.03 U	3	0.032 U	0.2	0.03 U
Chrysene	--	0.03 U	3.2	0.032 U	0.21	0.03 U
Dibenzo(a,h)anthracene	--	0.03 U	0.35	0.032 U	0.057	0.03 U
Fluoranthene	--	0.03 U	4.2	0.035	0.24	0.087
Fluorene	--	0.036	0.15	0.032 U	0.031 U	0.03 U
Indeno(1,2,3-cd)pyrene	--	0.03 U	0.67	0.032 U	0.14	0.03 U
Naphthalene	1.8	1.1	0.19	0.11	0.031 U	0.051
Phenanthrene	--	0.063	0.3	0.071	0.17	0.083
Pyrene	--	0.03 U	11	0.056	0.33	0.13
PCBs (mg/kg)						
Aroclor 1016	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1221	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1232	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1242	--	0.093 U	0.12	0.1 U	0.22	0.096 U
Aroclor 1248	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1254	--	0.19 U	0.17 U	0.2 U	0.2 U	0.19 U
Aroclor 1260	--	0.19 U	0.17 U	0.2 U	0.2 U	0.19 U
Total PCBs	--	0.845 U	0.800	0.900 U	1.004	0.860 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1 UJ	0.98 UJ	1.1 UJ	1 UJ	1.1 UJ
Arsenic	25,000	9.6 J	3.3	15 J	9.3	12 J
Barium	870,000	74 J	32 J	31 J	150 J	26 J
Beryllium	44,000	1	0.61	1.2	0.99	1.1
Cadmium	59,000	0.66	0.59	0.57 U	2.2	0.57 U
Chromium	690	17 J	12 J	19 J	33 J	16 J
Copper	--	34 J	18 J	32 J	120 J	18 J
Lead	--	19	85 J	26	340 J	13
Mercury	52,000	0.061	0.06	0.031 U	0.23	0.027
Nickel	440,000	30 J	10 J	43 J	31 J	27 J
Selenium	--	1 U	0.98 U	1.1 U	1 U	1.1 U
Silver	--	1 U	0.98 U	1.1 U	1 U	1.1 U
Thallium	--	1.9	0.98 U	1.2	1	1.1
Zinc	--	42 J	91 J	47 J	550 J	36 J
Total Cyanide	--	0.26 U	0.28 U	0.32 U	0.32 U	0.27 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) PCBs - Polychlorinated Biphenyls.

(6) J - Indicates an estimated value.

(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB15-003 10-12	SP16-001 2-3	SP16-002 9-10	SP16-003 15-16	SB17-001 1-2
TCL Volatiles (mg/kg)						
Acetone	100,000	0.1	0.053 U	0.1	0.062 U	0.06 U
Benzene	2.2	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Bromodichloromethane	3,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Bromoform	140	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Bromomethane	3.9	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
2-Butanone	--	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Carbon Disulfide	9	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Carbon Tetrachloride	0.9	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Chlorobenzene	1.3	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Chloroethane +	94	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Chloroform	0.76	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Chloromethane +	1.1	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Dibromochloromethane	1,300	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1-Dichloroethane	130	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,2-Dichloroethane	0.99	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1-Dichloroethene	300	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
cis-1,2-Dichloroethene	1,200	0.011 U	0.053	0.0098 U	0.012 U	0.012 U
trans-1,2-Dichloroethene	3,100	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,2-Dichloropropane	0.5	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
cis-1,3-Dichloropropene	0.39	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
trans-1,3-Dichloropropene	0.39	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Ethylbenzene	58	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
2-Hexanone +	0.72	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
4-Methyl-2-Pentanone	--	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Methylene Chloride	34	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Methyl tert-butyl ether	140	NA	NA	NA	NA	NA
Styrene	430	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1,2,2-Tetrachloroethane +	2,000	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Tetrachloroethene	28	0.011 U	0.1	0.0098 U	0.012 U	0.012 U
Toluene	42	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1,1-Trichloroethane	1,200	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1,2-Trichloroethane	1,800	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Trichloroethene	12	0.011 U	0.017	0.0098 U	0.012 U	0.012 U
Vinyl Chloride	1.1	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
m,p-Xylene*	320	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
o-Xylene*	320	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB15-003 10-12	SP16-001 2-3	SP16-002 9-10	SP16-003 15-16	SB17-001 1-2
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Bis(2-chloroethyl)ether	0.66	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Bis(2-ethylhexyl)phthalate	31,000	0.42 U	1.6	0.39 U	0.39 U	0.94
4-Bromophenyl phenyl ether	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Butyl benzyl phthalate	930	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Carbazole	--	0.42 U	0.75	0.39 U	0.39 U	0.36 U
4-Chloro-3-methylphenol	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4-Chloroaniline	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Chloronaphthalene	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Chlorophenol	53,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Dibenzofuran	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,2-Dichlorobenzene	310	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,3-Dichlorobenzene +	570	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,4-Dichlorobenzene	340	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
3,3´-Dichlorobenzidine	--	0.85 U	0.73 U	0.77 U	0.77 U	0.73 U
2,4-Dichlorophenol	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Diethyl phthalate	2,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Dimethyl phthalate +	1,300	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Di-n-butyl phthalate	2,300	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2,4-Dimethylphenol	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4,6-Dinitro-2-methylphenol	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
2,4-Dinitrophenol	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
2,4-Dinitrotoluene	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2,6-Dinitrotoluene	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Di-n-octyl phthalate	10,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachlorobenzene	2.6	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachlorobutadiene +	180	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachlorocyclopentadiene	1.1	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachloroethane	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Isophorone	4,600	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Methylnaphthalene	--	0.42 U	0.64	0.39 U	0.39 U	0.36 U
2-Methylphenol	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4-Methylphenol	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Nitroaniline +	7.5	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
3-Nitroaniline	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
4-Nitroaniline	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
Nitrobenzene	9.4	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Nitrophenol	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
4-Nitrophenol	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
N-Nitrosodi-n-propylamine	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
N-Nitrosodiphenylamine	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2, 2'-Oxybis(1-Chloropropane)	--	0.018 U	0.015 U	0.016 U	0.016 U	0.015 U
Pentachlorophenol	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
Phenol	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,2,4-Trichlorobenzene	920	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2,4,5-Trichlorophenol	--	0.85 U	0.73 U	0.77 U	0.77 U	0.73 U
2,4,6-Trichlorophenol	540	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB15-003 10-12	SP16-001 2-3	SP16-002 9-10	SP16-003 15-16	SB17-001 1-2
PAHs (mg/kg)						
Acenaphthene	--	0.032 U	0.5	0.029 U	0.029 U	0.036
Acenaphthylene	--	0.032 U	0.15	0.029 U	0.029 U	0.049
Anthracene	--	0.032 U	0.81	0.029 U	0.029 U	0.21
Benzo(a)anthracene	--	0.032 U	0.36	0.029 U	0.029 U	0.089
Benzo(b)fluoranthene	--	0.032 U	0.92	0.029 U	0.029 U	0.15
Benzo(k)fluoranthene	--	0.032 U	1.1	0.029 U	0.029 U	0.12
Benzo(g,h,i)perylene	--	0.032 U	0.81	0.029 U	0.029 U	0.034
Benzo(a)pyrene	--	0.032 U	0.75	0.029 U	0.029 U	0.069
Chrysene	--	0.032 U	2.3	0.029 U	0.029 U	0.087
Dibenzo(a,h)anthracene	--	0.032 U	0.28	0.029 U	0.029 U	0.028 U
Fluoranthene	--	0.032 U	1.8	0.029 U	0.029 U	0.12
Fluorene	--	0.032 U	0.44	0.029 U	0.029 U	0.046
Indeno(1,2,3-cd)pyrene	--	0.032 U	0.54	0.029 U	0.029 U	0.034
Naphthalene	1.8	0.032 U	0.64	0.029 U	0.029 U	0.051
Phenanthrene	--	0.032 U	2.2	0.029 U	0.029 U	0.21
Pyrene	--	0.032 U	2.7	0.029 U	0.029 U	0.18
PCBs (mg/kg)						
Aroclor 1016	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1221	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1232	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1242	--	0.1 U	4.7	0.094 U	0.095 U	0.15
Aroclor 1248	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1254	--	0.21 U	4.3	0.19 U	0.19 U	0.18 U
Aroclor 1260	--	0.21 U	0.18 U	0.19 U	0.19 U	0.18 U
Total PCBs	--	0.920 U	9.532	0.850 U	0.855 U	0.862
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.1 UJ	1.1 J	1 UJ	1.1 UJ	1 UJ
Arsenic	25,000	5 J	6.7	12 J	9.6 J	1.4
Barium	870,000	22 J	130 J	79 J	84 J	9.4 J
Beryllium	44,000	1.2	1.3	1.1	1.1	0.54
Cadmium	59,000	0.57 U	2.3	0.52 U	0.56 U	0.5 U
Chromium	690	19 J	47 J	17 J	17 J	5.3 J
Copper	--	31 J	170 J	39 J	28 J	4.9 J
Lead	--	16	150 J	21	17	7.3 J
Mercury	52,000	0.032 U	0.43	0.027 U	0.033	0.04
Nickel	440,000	30 J	40 J	37 J	24 J	3.3 J
Selenium	--	1.1 U	1 U	1 U	1.1 U	1 U
Silver	--	1.1 U	1 U	1 U	1.1 U	1 U
Thallium	--	2.5	1.4	1.8	1.7	1 U
Zinc	--	42 J	600 J	40 J	33 J	55 J
Total Cyanide	--	0.28 U	0.26 U	0.25 U	0.28 U	0.28 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) PCBs - Polychlorinated Biphenyls.

(6) J - Indicates an estimated value.

(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB18B-001 1-2	SB19-001 1-2	SB20-001 0-0.5	SB21-001 1-2	SB22-002 8-10
TCL Volatiles (mg/kg)						
Acetone	100,000	0.062 U	0.05	0.12	0.036	0.065
Benzene	2.2	0.012 U	0.039	0.0084 U	0.077	0.0089 U
Bromodichloromethane	3,000	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Bromoform	140	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Bromomethane	3.9	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
2-Butanone	--	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Carbon Disulfide	9	0.012 U	0.0081 U	0.011	0.0065 U	0.0089 U
Carbon Tetrachloride	0.9	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Chlorobenzene	1.3	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Chloroethane +	94	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Chloroform	0.76	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Chloromethane +	1.1	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Dibromochloromethane	1,300	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1-Dichloroethane	130	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,2-Dichloroethane	0.99	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1-Dichloroethene	300	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
cis-1,2-Dichloroethene	1,200	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
trans-1,2-Dichloroethene	3,100	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,2-Dichloropropane	0.5	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
cis-1,3-Dichloropropene	0.39	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
trans-1,3-Dichloropropene	0.39	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Ethylbenzene	58	0.012 U	0.22	0.014	0.12	0.0089 U
2-Hexanone +	0.72	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
4-Methyl-2-Pentanone	--	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Methylene Chloride	34	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Methyl tert-butyl ether	140	NA	NA	NA	NA	NA
Styrene	430	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1,2,2-Tetrachloroethane +	2,000	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Tetrachloroethene	28	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Toluene	42	0.012 U	0.064	0.0097	0.018	0.0089 U
1,1,1-Trichloroethane	1,200	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1,2-Trichloroethane	1,800	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Trichloroethene	12	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Vinyl Chloride	1.1	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
m,p-Xylene*	320	0.012 U	0.2	0.031	0.034	0.0089 U
o-Xylene*	320	0.012 U	0.12	0.011	0.036	0.0089 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB18B-001 1-2	SB19-001 1-2	SB20-001 0-0.5	SB21-001 1-2	SB22-002 8-10
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Bis(2-chloroethyl)ether	0.66	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	1.2	0.63	2.7	0.59 J	0.39 U
4-Bromophenyl phenyl ether	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Butyl benzyl phthalate	930	0.35 U	0.36 U	0.58	0.38 U	0.39 U
Carbazole	--	0.35 U	3.2	0.53	0.91 J	0.39 U
4-Chloro-3-methylphenol	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4-Chloroaniline	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Chloronaphthalene	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Chlorophenol	53,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Dibenzofuran	--	0.35 U	0.94	0.38 U	0.9 J	0.39 U
1,2-Dichlorobenzene	310	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
1,3-Dichlorobenzene +	570	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
1,4-Dichlorobenzene	340	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
3,3´-Dichlorobenzidine	--	0.7 U	0.72 U	0.75 U	0.75 U	0.78 U
2,4-Dichlorophenol	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Diethyl phthalate	2,000	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Dimethyl phthalate +	1,300	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Di-n-butyl phthalate	2,300	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2,4-Dimethylphenol	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrophenol	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2,6-Dinitrotoluene	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Di-n-octyl phthalate	10,000	1.6	0.36 U	0.38 U	0.38 U	0.39 U
Hexachlorobenzene	2.6	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Hexachlorobutadiene +	180	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Hexachlorocyclopentadiene	1.1	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Hexachloroethane	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Isophorone	4,600	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Methylnaphthalene	--	0.47	20	0.59	2.3 J	0.39 U
2-Methylphenol	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4-Methylphenol	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Nitroaniline +	7.5	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
3-Nitroaniline	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
4-Nitroaniline	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
Nitrobenzene	9.4	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Nitrophenol	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
4-Nitrophenol	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
N-Nitrosodiphenylamine	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.015 U	0.015 U	0.016 U	0.38 U	0.39 U
Pentachlorophenol	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
Phenol	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
1,2,4-Trichlorobenzene	920	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2,4,5-Trichlorophenol	--	0.7 U	0.72 U	0.75 U	0.75 U	0.78 U
2,4,6-Trichlorophenol	540	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) J - Indicates an estimated value.
(6) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB18B-001 1-2	SB19-001 1-2	SB20-001 0-0.5	SB21-001 1-2	SB22-002 8-10
PAHs (mg/kg)						
Acenaphthene	--	0.19	3.1	0.31	3.3 J	0.031
Acenaphthylene	--	0.12	2.3	0.19	2.5 J	0.029 U
Anthracene	--	0.67	3.1	0.78	5 J	0.047
Benzo(a)anthracene	--	0.31	1.4	0.26	1.6 J	0.029 U
Benzo(b)fluoranthene	--	0.57	3.4	2	3.1 J	0.029 U
Benzo(k)fluoranthene	--	0.6	3	1.9	3.5 J	0.029 U
Benzo(g,h,i)perylene	--	0.8	3	0.89	3.7 J	0.029 U
Benzo(a)pyrene	--	0.41	2.7	0.67	4 J	0.029 U
Chrysene	--	1.7	5.4	1.4	5.6 J	0.04
Dibenzo(a,h)anthracene	--	0.25	1.3	0.3	1.1 J	0.029 U
Fluoranthene	--	1.2	7.4	2.4	8.1 J	0.029 U
Fluorene	--	0.3	3.2	0.31	3.6 J	0.033
Indeno(1,2,3-cd)pyrene	--	0.52	2.5	0.62	2.5 J	0.029 U
Naphthalene	1.8	0.42	13	0.47	2.4 J	0.2
Phenanthrene	--	1.9	9.7	2.5	13 J	0.13
Pyrene	--	1.8	8.9	1.9	14 J	0.029 U
PCBs (mg/kg)						
Aroclor 1016	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1221	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1232	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1242	--	1.9	0.55	1.3	0.1	0.094 U
Aroclor 1248	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1254	--	1.6	0.52	0.91 U	0.18 U	0.19 U
Aroclor 1260	--	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U
Total PCBs	--	4.010	1.588	2.754	0.824	0.850 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1 J	0.98 J	1 J	0.97 UJ	1.1 UJ
Arsenic	25,000	4	2.5	4.3	6.9	5.7 J
Barium	870,000	99 J	69 J	150 J	76 J	34 J
Beryllium	44,000	0.79	0.5	0.87	0.48 U	0.57 U
Cadmium	59,000	1.1	0.44	1.3	0.89	0.57 U
Chromium	690	12 J	9.2 J	15 J	15 J	18 J
Copper	--	67 J	33 J	37 J	48 J	26 J
Lead	--	130 J	46 J	94 J	120 J	22
Mercury	52,000	0.2	0.1	0.53	0.33	0.029
Nickel	440,000	11 J	12 J	14 J	22 J	31 J
Selenium	--	0.93 U	0.82 U	1 U	0.97 U	1.1 U
Silver	--	0.93 U	0.82 U	1 U	0.97 U	1.1 U
Thallium	--	1.2	1.1	1.5	0.97 U	1.2
Zinc	--	240 J	98 J	210 J	150 J	46 J
Total Cyanide	--	0.26 U	0.25 U	0.32 U	0.3 U	0.3 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) J - Indicates an estimated value.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB23-001 1-2	SB24-001 1-2	SB25-001 1-2	SB25-002 3-5	SB25-003 12-14
TCL Volatiles (mg/kg)						
Acetone	100,000	0.056 U	0.056 U	0.12	0.11	0.058 U
Benzene	2.2	0.011 U	0.011 U	1.5	0.22	0.012 U
Bromodichloromethane	3,000	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Bromoform	140	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Bromomethane	3.9	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
2-Butanone	--	0.022 U	0.022 U	0.026	0.034 U	0.023 U
Carbon Disulfide	9	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Carbon Tetrachloride	0.9	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Chlorobenzene	1.3	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Chloroethane +	94	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
Chloroform	0.76	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Chloromethane +	1.1	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Dibromochloromethane	1,300	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1-Dichloroethane	130	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,2-Dichloroethane	0.99	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1-Dichloroethene	300	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
cis-1,2-Dichloroethene	1,200	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
trans-1,2-Dichloroethene	3,100	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,2-Dichloropropane	0.5	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
cis-1,3-Dichloropropene	0.39	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
trans-1,3-Dichloropropene	0.39	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Ethylbenzene	58	0.011 U	0.016	2.8	4.6	0.012 U
2-Hexanone +	0.72	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
4-Methyl-2-Pentanone	--	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
Methylene Chloride	34	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
Methyl tert-butyl ether	140	NA	NA	NA	NA	NA
Styrene	430	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1,2,2-Tetrachloroethane +	2,000	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Tetrachloroethene	28	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Toluene	42	0.011 U	0.011 U	0.03	0.54	0.012 U
1,1,1-Trichloroethane	1,200	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1,2-Trichloroethane	1,800	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Trichloroethene	12	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Vinyl Chloride	1.1	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
m,p-Xylene*	320	0.011 U	0.011 U	0.068	6.7	0.012 U
o-Xylene*	320	0.011 U	0.011 U	0.72	6.8	0.012 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB23-001 1-2	SB24-001 1-2	SB25-001 1-2	SB25-002 3-5	SB25-003 12-14
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Bis(2-chloroethyl)ether **	0.66	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Bis(2-ethylhexyl)phthalate	31,000	2.1	1.7 U	0.36 U	1.2	0.42
4-Bromophenyl phenyl ether	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Butyl benzyl phthalate	930	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Carbazole	--	1.8 U	4.1	1.9	5.7	0.4 U
4-Chloro-3-methylphenol	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4-Chloroaniline	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Chloronaphthalene	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Chlorophenol	53,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4-Chlorophenyl phenyl ether	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Dibenzofuran	--	1.8 U	1.7 U	0.84	4.7	0.4 U
1,2-Dichlorobenzene	310	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
1,3-Dichlorobenzene +	570	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
1,4-Dichlorobenzene	340	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
3,3´-Dichlorobenzidine	--	3.7 U	3.5 U	0.72 U	0.81 U	0.8 U
2,4-Dichlorophenol	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Diethyl phthalate	2,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Dimethyl phthalate +	1,300	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Di-n-butyl phthalate	2,300	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2,4-Dimethylphenol	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4,6-Dinitro-2-methylphenol	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
2,4-Dinitrophenol	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
2,4-Dinitrotoluene	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2,6-Dinitrotoluene	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Di-n-octyl phthalate	10,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachlorobenzene	2.6	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachlorobutadiene +	180	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachlorocyclopentadiene **	1.1	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachloroethane	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Isophorone	4,600	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Methylnaphthalene	--	1.8 U	1.7 U	4.1	58	0.4
2-Methylphenol	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4-Methylphenol	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Nitroaniline + **	7.5	8.9 U	8.4 U	1.7 U	2 U	1.9 U
3-Nitroaniline	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
4-Nitroaniline	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
Nitrobenzene	9.4	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Nitrophenol	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
4-Nitrophenol	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
N-Nitrosodi-n-propylamine	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
N-Nitrosodiphenylamine	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.078 U	0.073 U	0.015 U	0.017 U	0.017 U
Pentachlorophenol	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
Phenol	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
1,2,4-Trichlorobenzene	920	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2,4,5-Trichlorophenol	--	3.7 U	3.5 U	0.72 U	0.81 U	0.8 U
2,4,6-Trichlorophenol	540	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).

(6) ** Several values exceeded non-TACO or TACO screening levels but were consistently non-detect so no values were shaded.

(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB23-001 1-2	SB24-001 1-2	SB25-001 1-2	SB25-002 3-5	SB25-003 12-14
PAHs (mg/kg)						
Acenaphthene	--	2.1	0.63	8.3	19	0.03 U
Acenaphthylene	--	5	0.34	6.1	8.9	0.03 U
Anthracene	--	4.1	2.1	8.1	16	0.03 U
Benzo(a)anthracene	--	5.9	0.29	8	14	0.03 U
Benzo(b)fluoranthene	--	3.1	1.5	4	7	0.03 U
Benzo(k)fluoranthene	--	3.2	1.3	3.3	7	0.03 U
Benzo(g,h,i)perylene	--	1.6	1.5	2.3	3.7	0.03 U
Benzo(a)pyrene	--	5	1.7	5.1	9.2	0.03 U
Chrysene	--	6.6	3.6	9.1	15	0.03 U
Dibenzo(a,h)anthracene	--	1.4 U	0.72	0.84	0.94	0.03 U
Fluoranthene	--	9.4	6.4	16	20	0.03 U
Fluorene	--	2.4	0.67	7	26	0.067
Indeno(1,2,3-cd)pyrene	--	1.4 U	1.4	2.1	3.1 U	0.03 U
Naphthalene	1.8	1.8	0.65	6.7	28	0.6
Phenanthrene	--	10	5.4	30	62	0.15
Pyrene	--	14	7	24	32	0.03 U
PCBs (mg/kg)						
Aroclor 1016	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1221	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1232	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1242	--	0.95	1.1	0.086 U	0.098 U	0.096 U
Aroclor 1248	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1254	--	0.72	0.9	0.17 U	0.2 U	0.19 U
Aroclor 1260	--	0.18 U	0.17 U	0.17 U	0.2 U	0.19 U
Total PCBs	--	2.206	2.518	0.770 U	0.890 U	0.860 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.1 J	1.1 J	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	25,000	5	2.5	3.2	7.8 J	11 J
Barium	870,000	98 J	110 J	130 J	92 J	110 J
Beryllium	44,000	0.76	0.62	0.76	1.3	1.2
Cadmium	59,000	0.88	1.2	0.59	0.56 U	0.57 U
Chromium	690	10 J	13 J	7.8 J	17 J	18 J
Copper	--	41 J	60 J	18 J	25 J	26 J
Lead	--	140 J	150 J	61 J	58	17
Mercury	52,000	0.21	0.2	0.17	0.35	0.03 U
Nickel	440,000	13 J	12 J	6.9 J	29 J	28 J
Selenium	--	0.99 U	0.96 U	1.1 U	1.1 U	1.1 U
Silver	--	0.99 U	0.96 U	1.1 U	1.1 U	1.1 U
Thallium	--	1.4	1.3	1.4	1.8	1.9
Zinc	--	120 J	270 J	73 J	58 J	41 J
Total Cyanide	--	0.28 U	0.22 U	0.27 U	0.26 U	0.31 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) J - Indicates an estimated value.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB27-001 5-7	SB27-002 10-12	SB28-001 2-3	SB28-002 5-7	SB29-001 3-5
TCL Volatiles (mg/kg)						
Acetone	100,000	0.046	0.035 U	0.093	0.048	0.055 U
Benzene	2.2	0.0084 U	0.0069 U	0.041	0.0076 U	0.011 U
Bromodichloromethane	3,000	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Bromoform	140	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Bromomethane	3.9	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
2-Butanone	--	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Carbon Disulfide	9	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Carbon Tetrachloride	0.9	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Chlorobenzene	1.3	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Chloroethane +	94	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Chloroform	0.76	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Chloromethane +	1.1	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Dibromochloromethane	1,300	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1-Dichloroethane	130	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,2-Dichloroethane	0.99	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1-Dichloroethene	300	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
cis-1,2-Dichloroethene	1,200	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
trans-1,2-Dichloroethene	3,100	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,2-Dichloropropane	0.5	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
cis-1,3-Dichloropropene	0.39	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
trans-1,3-Dichloropropene	0.39	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Ethylbenzene	58	0.0084 U	0.0069 U	0.059	0.0076 U	0.011 U
2-Hexanone +	0.72	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
4-Methyl-2-Pentanone	--	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Methylene Chloride	34	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Methyl tert-butyl ether	140	NA	NA	NA	NA	NA
Styrene	430	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1,2,2-Tetrachloroethane +	2,000	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Tetrachloroethene	28	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Toluene	42	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1,1-Trichloroethane	1,200	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1,2-Trichloroethane	1,800	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Trichloroethene	12	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Vinyl Chloride	1.1	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
m,p-Xylene*	320	0.0084 U	0.0069 U	0.012	0.0076 U	0.011 U
o-Xylene*	320	0.0084 U	0.0069 U	0.015	0.0076 U	0.011 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB27-001 5-7	SB27-002 10-12	SB28-001 2-3	SB28-002 5-7	SB29-001 3-5
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Bis(2-chloroethyl)ether	0.66	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	0.38 U	0.38 U	0.45	0.4 U	0.39 U
4-Bromophenyl phenyl ether	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Butyl benzyl phthalate	930	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Carbazole	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Chloro-3-methylphenol	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Chloroaniline	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Chloronaphthalene	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Chlorophenol	53,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Dibenzofuran	--	0.38 U	0.38 U	0.5	0.4 U	0.39 U
1,2-Dichlorobenzene	310	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
1,3-Dichlorobenzene +	570	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
1,4-Dichlorobenzene	340	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
3,3´-Dichlorobenzidine	--	0.76 U	0.76 U	0.78 U	0.79 U	0.78 U
2,4-Dichlorophenol	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Diethyl phthalate	2,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Dimethyl phthalate +	1,300	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Di-n-butyl phthalate	2,300	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2,4-Dimethylphenol	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrophenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2,6-Dinitrotoluene	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Di-n-octyl phthalate	10,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachlorobenzene	2.6	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachlorobutadiene +	180	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachlorocyclopentadiene	1.1	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachloroethane	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Isophorone	4,600	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Methylnaphthalene	--	0.38 U	0.38 U	1.1	0.4 U	0.39 U
2-Methylphenol	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Methylphenol	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Nitroaniline +	7.5	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
3-Nitroaniline	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Nitroaniline	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Nitrobenzene	9.4	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Nitrophenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Nitrophenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
N-Nitrosodiphenylamine	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Pentachlorophenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
1,2,4-Trichlorobenzene	920	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2,4,5-Trichlorophenol	--	0.76 U	0.76 U	0.78 U	0.79 U	0.78 U
2,4,6-Trichlorophenol	540	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB27-001 5-7	SB27-002 10-12	SB28-001 2-3	SB28-002 5-7	SB29-001 3-5
PAHs (mg/kg)						
Acenaphthene	--	0.029 U	0.029 U	1.7	0.03 U	0.035
Acenaphthylene	--	0.029 U	0.029 U	1.4	0.03 U	0.029 U
Anthracene	--	0.029 U	0.029 U	3.5	0.03 U	0.038
Benzo(a)anthracene	--	0.029 U	0.029 U	1.1	0.03 U	0.029 U
Benzo(b)fluoranthene	--	0.029 U	0.029 U	1.8	0.03 U	0.029 U
Benzo(k)fluoranthene	--	0.029 U	0.029 U	1.9	0.03 U	0.029 U
Benzo(g,h,i)perylene	--	0.029 U	0.029 U	3	0.03 U	0.029 U
Benzo(a)pyrene	--	0.029 U	0.029 U	2.6	0.03 U	0.029 U
Chrysene	--	0.029 U	0.029 U	3.8	0.03 U	0.052
Dibenzo(a,h)anthracene	--	0.029 U	0.029 U	0.89	0.03 U	0.029 U
Fluoranthene	--	0.029 U	0.029 U	0.051	0.03 U	0.029
Fluorene	--	0.029 U	0.029 U	1.1	0.03 U	0.033
Indeno(1,2,3-cd)pyrene	--	0.029 U	0.029 U	1.9	0.03 U	0.029 U
Naphthalene	1.8	0.029 U	0.029 U	1.4	0.03 U	0.094
Phenanthrene	--	0.031	0.047	0.038	0.03 U	0.14
Pyrene	--	0.029 U	0.029 U	0.097	0.03 U	0.044
PCBs (mg/kg)						
Aroclor 1016	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1221	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1232	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1242	--	0.094 U	0.093 U	0.34	0.14	0.094 U
Aroclor 1248	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1254	--	0.19 U	0.19 U	0.2	0.19 U	0.19 U
Aroclor 1260	--	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Total PCBs	--	0.850 U	0.845 U	1.102	0.904	0.850 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	25,000	7.1 J	7 J	6.1	9.2 J	11 J
Barium	870,000	32 J	39 J	67 J	41 J	41 J
Beryllium	44,000	0.53 U	0.55 U	0.55 U	0.57 U	0.57 U
Cadmium	59,000	0.53 U	0.55 U	0.71	0.57 U	0.57 U
Chromium	690	16 J	17 J	14 J	18 J	18 J
Copper	--	39 J	29 J	42 J	27 J	30 J
Lead	--	20	19	120 J	31	23
Mercury	52,000	0.028 U	0.028 U	0.53	0.049	0.031
Nickel	440,000	31 J	30 J	20 J	33 J	38 J
Selenium	--	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Silver	--	12	1.1 U	1.1 U	1.1 U	1.1 U
Thallium	--	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Zinc	--	50 J	42 J	150 J	61 J	46 J
Total Cyanide	--	0.28 U	0.27 U	0.29 U	0.3 U	0.28 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) PCBs - Polychlorinated Biphenyls.

(6) J - Indicates an estimated value.

(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB29-002 12-14	SB31-001 2-3	SB31-002 6-8	SB32-001 2-3	SB32-002 3-5
TCL Volatiles (mg/kg)						
Acetone	100,000	0.067 U	0.03	0.064 U	0.067 U	0.081 U
Benzene	2.2	0.013 U	0.024	0.013 U	5.2	0.77
Bromodichloromethane	3,000	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Bromoform	140	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Bromomethane	3.9	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
2-Butanone	--	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Carbon Disulfide	9	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Carbon Tetrachloride	0.9	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Chlorobenzene	1.3	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Chloroethane +	94	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Chloroform	0.76	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Chloromethane +	1.1	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Dibromochloromethane	1,300	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1-Dichloroethane	130	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,2-Dichloroethane	0.99	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1-Dichloroethene	300	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
cis-1,2-Dichloroethene	1,200	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
trans-1,2-Dichloroethene	3,100	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,2-Dichloropropane	0.5	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
cis-1,3-Dichloropropene	0.39	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
trans-1,3-Dichloropropene	0.39	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Ethylbenzene	58	0.013 U	0.038	0.013 U	1.5	2
2-Hexanone +	0.72	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
4-Methyl-2-Pentanone	--	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Methylene Chloride	34	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Methyl tert-butyl ether	140	NA	NA	NA	NA	NA
Styrene	430	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1,2,2-Tetrachloroethane +	2,000	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Tetrachloroethene	28	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Toluene	42	0.013 U	0.032	0.013 U	0.77	0.016 U
1,1,1-Trichloroethane	1,200	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1,2-Trichloroethane	1,800	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Trichloroethene	12	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Vinyl Chloride	1.1	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
m,p-Xylene*	320	0.013 U	0.047	0.013 U	0.62	0.057
o-Xylene*	320	0.013 U	0.029	0.013 U	0.47	0.034
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) Shaded value exceeds Tier 1 screening level.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB29-002 12-14	SB31-001 2-3	SB31-002 6-8	SB32-001 2-3	SB32-002 3-5
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Bis(2-chloroethyl)ether	0.66	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	0.33 U	0.37 U	0.99	0.87
4-Bromophenyl phenyl ether	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Butyl benzyl phthalate	930	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Carbazole	--	0.39 U	0.33 U	0.37 U	0.46	1.3
4-Chloro-3-methylphenol	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4-Chloroaniline	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Chloronaphthalene	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Chlorophenol	53,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Dibenzofuran	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
1,2-Dichlorobenzene	310	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
1,3-Dichlorobenzene +	570	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
1,4-Dichlorobenzene	340	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
3,3´-Dichlorobenzidine	--	0.78 U	0.33 U	0.74 U	0.66 U	0.78 U
2,4-Dichlorophenol	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Diethyl phthalate	2,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Dimethyl phthalate +	1,300	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Di-n-butyl phthalate	2,300	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2,4-Dimethylphenol	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
2,4-Dinitrophenol	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
2,4-Dinitrotoluene	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2,6-Dinitrotoluene	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Di-n-octyl phthalate	10,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachlorobenzene	2.6	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachlorobutadiene +	180	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachlorocyclopentadiene	1.1	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachloroethane	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Isophorone	4,600	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Methylnaphthalene	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Methylphenol	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4-Methylphenol	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Nitroaniline +	7.5	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
3-Nitroaniline	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
4-Nitroaniline	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
Nitrobenzene	9.4	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Nitrophenol	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
4-Nitrophenol	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
N-Nitrosodiphenylamine	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.39 U	0.33 U	0.016 U	0.014 U	0.017 U
Pentachlorophenol	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
Phenol	--	0.39 U	15	0.37 U	0.33 U	0.39 U
1,2,4-Trichlorobenzene	920	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2,4,5-Trichlorophenol	--	0.78 U	0.66 U	0.74 U	0.66 U	0.78 U
2,4,6-Trichlorophenol	540	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB29-002 12-14	SB31-001 2-3	SB31-002 6-8	SB32-001 2-3	SB32-002 3-5
PAHs (mg/kg)						
Acenaphthene	--	0.029 U	0.44	0.028 U	0.8	0.84
Acenaphthylene	--	0.029 U	0.13 U	0.029	1.2	0.99
Anthracene	--	0.029 U	0.7	0.047	1.5	0.98
Benzo(a)anthracene	--	0.029 U	0.2	0.028 U	2.7	1.8
Benzo(b)fluoranthene	--	0.029 U	0.84	0.028 U	1.2	0.87
Benzo(k)fluoranthene	--	0.029 U	0.48	0.028 U	0.76	0.75
Benzo(g,h,i)perylene	--	0.029 U	1.5	0.028 U	0.61	0.38
Benzo(a)pyrene	--	0.029 U	0.91	0.028 U	1.7	1.1
Chrysene	--	0.029 U	1.5	0.075	2.5	1.7
Dibenzo(a,h)anthracene	--	0.029 U	0.13 U	0.028 U	0.25 U	0.3 U
Fluoranthene	--	0.029 U	0.67	0.075	3.4	2.8
Fluorene	--	0.029 U	0.53	0.03	1	0.87
Indeno(1,2,3-cd)pyrene	--	0.029 U	1.1	0.028 U	0.56	0.34
Naphthalene	1.8	0.029 U	0.68	0.11	0.25 U	2.1
Phenanthrene	--	0.036	2	0.17	3.8	3.7
Pyrene	--	0.029 U	1.1	0.13	4.6	4
PCBs (mg/kg)						
Aroclor 1016	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1221	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1232	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1242	--	0.095 U	3.7	0.093 U	1.3	0.15
Aroclor 1248	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1254	--	0.19 U	1.8	0.19 U	1.1	0.19 U
Aroclor 1260	--	0.19 U	0.17 U	0.19 U	0.17 U	0.19 U
Total PCBs	--	0.855 U	6.002	0.845 U	2.910	0.902
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.1 UJ	1 UJ	1.1 UJ	1.1 J	1.1 J
Arsenic	25,000	7.2 J	5	12 J	4.8	3.4 J
Barium	870,000	38 J	43 J	31 J	110 J	80 J
Beryllium	44,000	0.55 U	0.62	0.93	1	0.9
Cadmium	59,000	0.55 U	1.2	0.55 U	1.2	0.7
Chromium	690	17 J	16 J	19 J	29 J	13 J
Copper	--	27 J	33 J	29 J	91 J	35 J
Lead	--	18	120 J	18	190 J	65
Mercury	52,000	0.032	0.25	0.037	0.21	0.052
Nickel	440,000	32 J	18 J	31 J	18 J	11 J
Selenium	--	1.1 U	1 U	1.1 U	0.98 U	1.1 U
Silver	--	1.1 U	1 U	1.1 U	0.98 U	1.1 U
Thallium	--	1.1 U	1 U	1.2	1.3	1.5
Zinc	--	50 J	200 J	45 J	260 J	88 J
Total Cyanide	--	0.29 U	0.24 U	0.27 U	0.25 U	0.27 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) J - Indicates an estimated value.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB33-001 0-0.5	SB33-002 5-7	SB33-003 10-12	SP34-001 0-0.5	SP34-002 5-7
TCL Volatiles (mg/kg)						
Acetone	100,000	0.042 U	0.12	0.064 U	0.041 U	0.14
Benzene	2.2	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Bromodichloromethane	3,000	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Bromoform	140	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Bromomethane	3.9	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
2-Butanone	--	0.017 U	0.027	0.026 U	0.017 U	0.024 U
Carbon Disulfide	9	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Carbon Tetrachloride	0.9	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Chlorobenzene	1.3	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Chloroethane +	94	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
Chloroform	0.76	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Chloromethane +	1.1	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Dibromochloromethane	1,300	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1-Dichloroethane	130	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,2-Dichloroethane	0.99	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1-Dichloroethene	300	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
cis-1,2-Dichloroethene	1,200	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
trans-1,2-Dichloroethene	3,100	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,2-Dichloropropane	0.5	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
cis-1,3-Dichloropropene	0.39	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
trans-1,3-Dichloropropene	0.39	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Ethylbenzene	58	0.01	0.012 U	0.013 U	0.015	0.012 U
2-Hexanone +	0.72	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
4-Methyl-2-Pentanone	--	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
Methylene Chloride	34	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
Methyl tert-butyl ether	140	NA	NA	NA	NA	NA
Styrene	430	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1,2,2-Tetrachloroethane +	2,000	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Tetrachloroethene	28	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Toluene	42	0.0084 U	0.012 U	0.013 U	0.013	0.012 U
1,1,1-Trichloroethane	1,200	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1,2-Trichloroethane	1,800	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Trichloroethene	12	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Vinyl Chloride	1.1	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
m,p-Xylene*	320	0.0084 U	0.012 U	0.013 U	0.043	0.012 U
o-Xylene*	320	0.0084 U	0.025	0.013 U	0.033	0.012 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB33-001 0-0.5	SB33-002 5-7	SB33-003 10-12	SP34-001 0-0.5	SP34-002 5-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Bis(2-chloroethyl)ether **	0.66	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Bis(2-ethylhexyl)phthalate	31,000	2 U	0.4 U	0.39 U	2	0.4 U
4-Bromophenyl phenyl ether	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Butyl benzyl phthalate	930	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Carbazole	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Chloro-3-methylphenol	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Chloroaniline	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Chloronaphthalene	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Chlorophenol	53,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Chlorophenyl phenyl ether	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Dibenzofuran	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,2-Dichlorobenzene	310	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,3-Dichlorobenzene +	570	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,4-Dichlorobenzene	340	2 U	0.4 U	0.39 U	1.8 U	0.4 U
3,3´-Dichlorobenzidine	--	4.1 U	0.81 U	0.79 U	3.5 U	0.8 U
2,4-Dichlorophenol	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Diethyl phthalate	2,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Dimethyl phthalate +	1,300	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Di-n-butyl phthalate	2,300	6.3	0.4 U	0.39 U	1.8 U	0.4 U
2,4-Dimethylphenol	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4,6-Dinitro-2-methylphenol	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
2,4-Dinitrophenol	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
2,4-Dinitrotoluene	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2,6-Dinitrotoluene	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Di-n-octyl phthalate	10,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachlorobenzene	2.6	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachlorobutadiene +	180	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachlorocyclopentadiene **	1.1	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachloroethane	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Isophorone	4,600	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Methylnaphthalene	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Methylphenol	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Methylphenol	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Nitroaniline + **	7.5	9.9 U	2 U	1.9 U	8.6 U	1.9 U
3-Nitroaniline	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
4-Nitroaniline	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
Nitrobenzene	9.4	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Nitrophenol	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
4-Nitrophenol	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
N-Nitrosodi-n-propylamine	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
N-Nitrosodiphenylamine	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.087 U	0.017 U	0.017 U	0.075 U	0.017 U
Pentachlorophenol	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
Phenol	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,2,4-Trichlorobenzene	920	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2,4,5-Trichlorophenol	--	4.1 U	0.81 U	0.79 U	3.5 U	0.8 U
2,4,6-Trichlorophenol	540	2 U	0.4 U	0.39 U	1.8 U	0.4 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).

(6) ** Several values exceeded non-TACO or TACO screening levels but were consistently non-detect so no values were shaded.

(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB33-001 0-0.5	SB33-002 5-7	SB33-003 10-12	SP34-001 0-0.5	SP34-002 5-7
PAHs (mg/kg)						
Acenaphthene	--	1.5 U	0.031 U	0.03 U	0.13 U	0.12
Acenaphthylene	--	1.6	0.031 U	0.03 U	0.19	0.086
Anthracene	--	1.8	0.031 U	0.03 U	0.36	0.17
Benzo(a)anthracene	--	2.8	0.031 U	0.03 U	0.13 U	0.094
Benzo(b)fluoranthene	--	1.7	0.031 U	0.03 U	0.24	0.13
Benzo(k)fluoranthene	--	1.5 U	0.031 U	0.03 U	0.24	0.14
Benzo(g,h,i)perylene	--	1.5 U	0.031 U	0.03 U	0.57	0.36
Benzo(a)pyrene	--	1.8	0.031 U	0.03 U	0.13	0.14
Chrysene	--	3.2	0.031 U	0.041	0.75	0.39
Dibenzo(a,h)anthracene	--	1.5 U	0.031 U	0.03 U	0.13 U	0.11
Fluoranthene	--	3.7	0.031 U	0.039	0.21	0.33
Fluorene	--	1.5 U	0.031 U	0.03 U	0.13 U	0.31
Indeno(1,2,3-cd)pyrene	--	1.5 U	0.031 U	0.03 U	0.29	0.24
Naphthalene	1.8	2.1	0.14	0.042	0.38	0.03 U
Phenanthrene	--	4.1	0.076	0.083	1.3	0.13
Pyrene	--	5.5	0.047	0.033	0.36	1.2
PCBs (mg/kg)						
Aroclor 1016	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1221	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1232	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1242	--	2.5	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1248	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1254	--	2.2	0.19 U	0.19 U	1.7 U	0.2 U
Aroclor 1260	--	0.18 U	0.19 U	0.19 U	1.7 U	0.2 U
Total PCBs	--	5.232	0.860 U	0.850 U	7.750 U	0.890 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.1 UJ	1.1 UJ	1.1 UJ	1 UJ	1.2 UJ
Arsenic	25,000	5.9	5.1 J	17 J	1.2	7.5 J
Barium	870,000	100 J	97 J	63 J	59 J	100 J
Beryllium	44,000	0.86	1.2	1	0.57	1.3
Cadmium	59,000	0.59	0.59	0.54 U	0.54	0.59 U
Chromium	690	11 J	17 J	16 J	5.1 J	21 J
Copper	--	43 J	31 J	55 J	6.8 J	28 J
Lead	--	140 J	17	30	25 J	19
Mercury	52,000	0.28	0.046	0.023 U	0.026 U	0.031 U
Nickel	440,000	12 J	26 J	30 J	7.4 J	33 J
Selenium	--	1.1 U	1.1 U	1.1 U	1 U	1.2 U
Silver	--	1.1 U	1.1 U	1.1 U	1 U	1.2 U
Thallium	--	1.5	1.9	2	1.3	2.1
Zinc	--	69 J	54 J	43 J	29 J	53 J
Total Cyanide	--	0.29 U	0.34 U	0.29 U	0.27 U	0.31 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) J - Indicates an estimated value.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP35-001 1-2	SP35-002 6-7	SP35-003 12-13	SP37-001 1-2	SP37-002 8-9
TCL Volatiles (mg/kg)						
Acetone	100,000	0.14	0.13	0.042 U	0.044 U	0.082
Benzene	2.2	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Bromodichloromethane	3,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Bromoform	140	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Bromomethane	3.9	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
2-Butanone	--	0.015	0.027	0.017 U	0.018 U	0.02 U
Carbon Disulfide	9	0.013	0.012 U	0.0084 U	0.0088 U	0.0099 U
Carbon Tetrachloride	0.9	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Chlorobenzene	1.3	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Chloroethane +	94	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
Chloroform	0.76	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Chloromethane +	1.1	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Dibromochloromethane	1,300	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1-Dichloroethane	130	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,2-Dichloroethane	0.99	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1-Dichloroethene	300	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
cis-1,2-Dichloroethene	1,200	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
trans-1,2-Dichloroethene	3,100	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,2-Dichloropropane	0.5	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
cis-1,3-Dichloropropene	0.39	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
trans-1,3-Dichloropropene	0.39	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Ethylbenzene	58	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
2-Hexanone +	0.72	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
4-Methyl-2-Pentanone	--	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
Methylene Chloride	34	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
Methyl tert-butyl ether	140	NA	NA	NA	NA	NA
Styrene	430	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1,2,2-Tetrachloroethane +	2,000	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Tetrachloroethene	28	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Toluene	42	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1,1-Trichloroethane	1,200	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1,2-Trichloroethane	1,800	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Trichloroethene	12	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Vinyl Chloride	1.1	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
m,p-Xylene*	320	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
o-Xylene*	320	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP35-001 1-2	SP35-002 6-7	SP35-003 12-13	SP37-001 1-2	SP37-002 8-9
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Bis(2-chloroethyl)ether	0.66	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	5.6	0.39 U	0.39 U	0.42 U	0.39 U
4-Bromophenyl phenyl ether	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Butyl benzyl phthalate	930	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Carbazole	--	0.47	0.39 U	0.39 U	0.67	0.39 U
4-Chloro-3-methylphenol	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4-Chloroaniline	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Chloronaphthalene	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Chlorophenol	53,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Dibenzofuran	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,2-Dichlorobenzene	310	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,3-Dichlorobenzene +	570	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,4-Dichlorobenzene	340	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
3,3´-Dichlorobenzidine	--	0.71 U	0.79 U	0.77 U	0.85 U	0.77 U
2,4-Dichlorophenol	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Diethyl phthalate	2,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Dimethyl phthalate +	1,300	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Di-n-butyl phthalate	2,300	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2,4-Dimethylphenol	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
2,4-Dinitrophenol	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
2,4-Dinitrotoluene	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2,6-Dinitrotoluene	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Di-n-octyl phthalate	10,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachlorobenzene	2.6	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachlorobutadiene +	180	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachlorocyclopentadiene	1.1	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachloroethane	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Isophorone	4,600	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Methylnaphthalene	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Methylphenol	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4-Methylphenol	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Nitroaniline +	7.5	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
3-Nitroaniline	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
4-Nitroaniline	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
Nitrobenzene	9.4	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Nitrophenol	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
4-Nitrophenol	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
N-Nitrosodiphenylamine	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.015 U	0.017 U	0.016 U	0.018 U	0.016 U
Pentachlorophenol	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
Phenol	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,2,4-Trichlorobenzene	920	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2,4,5-Trichlorophenol	--	0.71 U	0.79 U	0.77 U	0.85 U	0.77 U
2,4,6-Trichlorophenol	540	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP35-001 1-2	SP35-002 6-7	SP35-003 12-13	SP37-001 1-2	SP37-002 8-9
PAHs (mg/kg)						
Acenaphthene	--	0.11	0.03 U	0.029 U	0.13	0.029 U
Acenaphthylene	--	0.082	0.03 U	0.029 U	0.074	0.029 U
Anthracene	--	0.15	0.03 U	0.029 U	0.33	0.029 U
Benzo(a)anthracene	--	0.19	0.064	0.029 U	0.17	0.029 U
Benzo(b)fluoranthene	--	0.47	0.041	0.029 U	0.38	0.029 U
Benzo(k)fluoranthene	--	0.53	0.056	0.029 U	0.87	0.029 U
Benzo(g,h,i)perylene	--	0.57	0.037	0.029 U	0.35	0.029 U
Benzo(a)pyrene	--	0.33	0.072	0.029 U	0.32	0.029 U
Chrysene	--	0.71	0.066	0.029 U	1.1	0.029 U
Dibenzo(a,h)anthracene	--	0.076	0.03 U	0.029 U	0.19	0.029 U
Fluoranthene	--	0.55	0.074	0.029 U	2	0.029 U
Fluorene	--	0.086	0.03 U	0.029 U	0.12	0.029 U
Indeno(1,2,3-cd)pyrene	--	0.18	0.036	0.029 U	0.36	0.029 U
Naphthalene	1.8	0.16	0.03 U	0.029 U	0.18	0.056
Phenanthrene	--	0.7	0.03 U	0.029 U	1	0.029 U
Pyrene	--	0.63	0.074	0.029 U	2.1	0.029 U
PCBs (mg/kg)						
Aroclor 1016	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1221	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1232	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1242	--	8.5	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1248	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1254	--	6	0.19 U	0.19 U	0.2 U	0.18 U
Aroclor 1260	--	0.17 U	0.19 U	0.19 U	0.2 U	0.18 U
Total PCBs	--	15.014	0.855 U	0.855 U	0.900 U	0.820 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	6.5 J	1.1 UJ	1.1 UJ	1.2 UJ	0.97 UJ
Arsenic	25,000	20	5.8 J	12 J	7.2	15 J
Barium	870,000	520 J	98 J	89 J	120 J	98 J
Beryllium	44,000	1.4	0.83	1.1	1.1	1.2
Cadmium	59,000	8.1	0.56 U	0.56 U	0.72	0.53
Chromium	690	320 J	11 J	20 J	19 J	20 J
Copper	--	480 J	11 J	30 J	28 J	38 J
Lead	--	1400 J	36	25	61 J	22
Mercury	52,000	2.6	0.14	0.024 U	0.33	0.026 U
Nickel	440,000	210 J	12 J	35 J	26 J	38 J
Selenium	--	0.99 U	1.1 U	1.1 U	1.2 U	0.97 U
Silver	--	1	1.1 U	1.1 U	1.2 U	0.97 U
Thallium	--	1.3	2	2.2	2	2
Zinc	--	1600 J	40 J	49 J	73 J	46 J
Total Cyanide	--	0.28 U	0.29 U	0.24 U	0.35 U	0.25 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) PCBs - Polychlorinated Biphenyls.

(6) J - Indicates an estimated value.

(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP37-003 12-13	SB38-001 5-7	SP39-001 1-2	SP39-002 5-6	SP39-003 10-11
TCL Volatiles (mg/kg)						
Acetone	100,000	0.066 J	0.12 J	0.036 U	0.11	0.047 U
Benzene	2.2	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Bromodichloromethane	3,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Bromoform	140	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Bromomethane	3.9	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
2-Butanone	--	0.023 U	0.029 UJ	0.014 U	0.027	0.019 U
Carbon Disulfide	9	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Carbon Tetrachloride	0.9	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Chlorobenzene	1.3	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Chloroethane +	94	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
Chloroform	0.76	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Chloromethane +	1.1	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Dibromochloromethane	1,300	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1-Dichloroethane	130	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,2-Dichloroethane	0.99	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1-Dichloroethene	300	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
cis-1,2-Dichloroethene	1,200	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
trans-1,2-Dichloroethene	3,100	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,2-Dichloropropane	0.5	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
cis-1,3-Dichloropropene	0.39	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
trans-1,3-Dichloropropene	0.39	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Ethylbenzene	58	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
2-Hexanone +	0.72	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
4-Methyl-2-Pentanone	--	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
Methylene Chloride	34	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
Methyl tert-butyl ether	140	NA	NA	NA	NA	NA
Styrene	430	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1,2,2-Tetrachloroethane +	2,000	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Tetrachloroethene	28	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Toluene	42	0.012 U	0.014 UJ	0.008	0.013 U	0.0094 U
1,1,1-Trichloroethane	1,200	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1,2-Trichloroethane	1,800	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Trichloroethene	12	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Vinyl Chloride	1.1	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
m,p-Xylene*	320	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
o-Xylene*	320	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) J - Indicates an estimated value.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP37-003 12-13	SB38-001 5-7	SP39-001 1-2	SP39-002 5-6	SP39-003 10-11
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Bis(2-chloroethyl)ether **	0.66	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Bis(2-ethylhexyl)phthalate	31,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Bromophenyl phenyl ether	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Butyl benzyl phthalate	930	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Carbazole	--	0.38 U	0.53	1.7 U	0.4 U	0.38 U
4-Chloro-3-methylphenol	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Chloroaniline	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Chloronaphthalene	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Chlorophenol	53,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Chlorophenyl phenyl ether	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Dibenzofuran	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,2-Dichlorobenzene	310	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,3-Dichlorobenzene +	570	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,4-Dichlorobenzene	340	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
3,3´-Dichlorobenzidine	--	0.75 U	0.83 U	3.5 U	0.8 U	0.77 U
2,4-Dichlorophenol	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Diethyl phthalate	2,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Dimethyl phthalate +	1,300	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Di-n-butyl phthalate	2,300	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2,4-Dimethylphenol	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4,6-Dinitro-2-methylphenol	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
2,4-Dinitrophenol	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
2,4-Dinitrotoluene	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2,6-Dinitrotoluene	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Di-n-octyl phthalate	10,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachlorobenzene	2.6	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachlorobutadiene +	180	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachlorocyclopentadiene **	1.1	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachloroethane	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Isophorone	4,600	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Methylnaphthalene	--	0.38 U	1.7	1.7 U	0.4 U	0.38 U
2-Methylphenol	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Methylphenol	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Nitroaniline + **	7.5	1.8 U	2 U	8.4 U	1.9 U	1.9 U
3-Nitroaniline	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
4-Nitroaniline	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
Nitrobenzene	9.4	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Nitrophenol	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
4-Nitrophenol	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
N-Nitrosodiphenylamine	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.018 U	0.074 U	0.017 U	0.016 U
Pentachlorophenol	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
Phenol	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,2,4-Trichlorobenzene	920	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2,4,5-Trichlorophenol	--	0.75 U	0.83 U	3.5 U	0.8 U	0.77 U
2,4,6-Trichlorophenol	540	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).

(6) ** Several values exceeded non-TACO or TACO screening levels but were consistently non-detect so no values were shaded.

(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP37-003 12-13	SB38-001 5-7	SP39-001 1-2	SP39-002 5-6	SP39-003 10-11
PAHs (mg/kg)						
Acenaphthene	--	0.028 U	0.42	1.3 U	0.056	0.029 U
Acenaphthylene	--	0.028 U	0.37	1.3 U	0.03 U	0.029 U
Anthracene	--	0.028 U	1.7	1.3 U	0.29	0.03
Benzo(a)anthracene	--	0.028 U	1.9	1.3 U	0.13	0.029 U
Benzo(b)fluoranthene	--	0.028 U	1.1	1.3 U	0.58	0.029 U
Benzo(k)fluoranthene	--	0.028 U	0.96	1.3 U	0.65	0.029 U
Benzo(g,h,i)perylene	--	0.028 U	0.46	1.3 U	0.31	0.029 U
Benzo(a)pyrene	--	0.028 U	0.89	1.3 U	0.64	0.029 U
Chrysene	--	0.028 U	2.3	1.3 U	1.1	0.056
Dibenzo(a,h)anthracene	--	0.028 U	0.15	1.3 U	0.23	0.029 U
Fluoranthene	--	0.028 U	4.1	1.3 U	1.6	0.081
Fluorene	--	0.028 U	0.7	1.3 U	0.056	0.029 U
Indeno(1,2,3-cd)pyrene	--	0.028 U	0.38	1.3 U	0.3 U	0.029 U
Naphthalene	1.8	0.028 U	2	1.3 U	0.032	0.029 U
Phenanthrene	--	0.028 U	5.7	1.3	0.81	0.071
Pyrene	--	0.028 U	4.7	2	1.7	0.076
PCBs (mg/kg)						
Aroclor 1016	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1221	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1232	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1242	--	0.092 U	0.1 U	0.087 U	0.1 U	0.14
Aroclor 1248	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1254	--	0.18 U	0.2 U	0.17 U	0.2 U	0.19 U
Aroclor 1260	--	0.18 U	0.2 U	0.17 U	0.2 U	0.19 U
Total PCBs	--	0.820 U	0.900 U	0.775 U	0.900 U	0.900
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.2 UJ	1.3 UJ	1.1 UJ	6 J	1 UJ
Arsenic	25,000	7.7 J	7.7 J	1.7	10 J	8.1 J
Barium	870,000	85 J	49 J	57 J	140 J	83 J
Beryllium	44,000	1.1	1.1	0.59	1.1	1.1
Cadmium	59,000	0.59 U	0.69	0.95	1	0.51 U
Chromium	690	19 J	22 J	5.6 J	11 J	19 J
Copper	--	25 J	33 J	9.1 J	59 J	30 J
Lead	--	17	40	23 J	970	19
Mercury	52,000	0.029 U	0.051	0.025 U	6.2	0.027
Nickel	440,000	25 J	28 J	8.8 J	13 J	29 J
Selenium	--	1.2 U	1.3 U	1.1 U	1.1 U	1 U
Silver	--	1.2 U	1.3 U	1.1 U	1.1 U	1 U
Thallium	--	1.8	1.5	1.4	1.6	1.9
Zinc	--	37 J	88 J	33 J	200 J	40 J
Total Cyanide	--	0.31 U	0.33 U	0.28 U	0.31 U	0.3 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) J - Indicates an estimated value.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP40-002 7-8	SP40-003 14-15	SP43-001 2-3	SP43-002 3.5-4.5	SP43-003 11-12
TCL Volatiles (mg/kg)						
Acetone	100,000	0.071	0.043 U	0.15	0.063 U	0.041 U
Benzene	2.2	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Bromodichloromethane	3,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Bromoform	140	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Bromomethane	3.9	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
2-Butanone	--	0.02 U	0.017 U	0.031	0.025 U	0.017 U
Carbon Disulfide	9	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Carbon Tetrachloride	0.9	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Chlorobenzene	1.3	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Chloroethane +	94	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
Chloroform	0.76	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Chloromethane +	1.1	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Dibromochloromethane	1,300	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1-Dichloroethane	130	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,2-Dichloroethane	0.99	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1-Dichloroethene	300	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
cis-1,2-Dichloroethene	1,200	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
trans-1,2-Dichloroethene	3,100	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,2-Dichloropropane	0.5	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
cis-1,3-Dichloropropene	0.39	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
trans-1,3-Dichloropropene	0.39	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Ethylbenzene	58	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
2-Hexanone +	0.72	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
4-Methyl-2-Pentanone	--	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
Methylene Chloride	34	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
Methyl tert-butyl ether	140	NA	NA	NA	NA	NA
Styrene	430	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1,2,2-Tetrachloroethane +	2,000	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Tetrachloroethene	28	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Toluene	42	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1,1-Trichloroethane	1,200	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1,2-Trichloroethane	1,800	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Trichloroethene	12	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Vinyl Chloride	1.1	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
m,p-Xylene*	320	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
o-Xylene*	320	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Xylenes, Total	320	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP40-002 7-8	SP40-003 14-15	SP43-001 2-3	SP43-002 3.5-4.5	SP43-003 11-12
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Bis(2-chloroethyl)ether	0.66	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Bromophenyl phenyl ether	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Butyl benzyl phthalate	930	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Carbazole	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Chloro-3-methylphenol	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Chloroaniline	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Chloronaphthalene	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Chlorophenol	53,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Dibenzofuran	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,2-Dichlorobenzene	310	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,3-Dichlorobenzene +	570	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,4-Dichlorobenzene	340	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
3,3´-Dichlorobenzidine	--	0.77 U	0.77 U	0.85 U	0.78 U	0.78 U
2,4-Dichlorophenol	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Diethyl phthalate	2,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Dimethyl phthalate +	1,300	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Di-n-butyl phthalate	2,300	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2,4-Dimethylphenol	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
2,4-Dinitrophenol	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
2,4-Dinitrotoluene	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2,6-Dinitrotoluene	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Di-n-octyl phthalate	10,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachlorobenzene	2.6	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachlorobutadiene +	180	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachlorocyclopentadiene	1.1	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachloroethane	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Isophorone	4,600	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Methylnaphthalene	--	0.39 U	0.39 U	0.43 U	1.6	0.39 U
2-Methylphenol	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Methylphenol	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Nitroaniline +	7.5	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
3-Nitroaniline	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
4-Nitroaniline	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
Nitrobenzene	9.4	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Nitrophenol	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
4-Nitrophenol	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
N-Nitrosodiphenylamine	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.018 U	0.016 U	0.016 U
Pentachlorophenol	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
Phenol	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,2,4-Trichlorobenzene	920	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2,4,5-Trichlorophenol	--	0.77 U	0.77 U	0.85 U	0.78 U	0.78 U
2,4,6-Trichlorophenol	540	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP40-002 7-8	SP40-003 14-15	SP43-001 2-3	SP43-002 3.5-4.5	SP43-003 11-12
PAHs (mg/kg)						
Acenaphthene	--	0.029 U	0.029 U	0.072	0.062	0.029 U
Acenaphthylene	--	0.029 U	0.029 U	0.17	0.074	0.029 U
Anthracene	--	0.029 U	0.029 U	0.032 U	0.029	0.029 U
Benzo(a)anthracene	--	0.029 U	0.029 U	0.045	0.09	0.029 U
Benzo(b)fluoranthene	--	0.029 U	0.029 U	0.12	0.13	0.029 U
Benzo(k)fluoranthene	--	0.029 U	0.029 U	0.098	0.11	0.029 U
Benzo(g,h,i)perylene	--	0.029 U	0.029 U	0.062	0.087	0.029 U
Benzo(a)pyrene	--	0.029 U	0.029 U	0.056	0.13	0.029 U
Chrysene	--	0.029 U	0.029 U	0.3	0.16	0.029 U
Dibenzo(a,h)anthracene	--	0.029 U	0.029 U	0.032 U	0.038	0.029 U
Fluoranthene	--	0.029 U	0.029 U	0.15	0.17	0.029 U
Fluorene	--	0.029 U	0.029 U	0.032 U	0.16	0.029 U
Indeno(1,2,3-cd)pyrene	--	0.029 U	0.029 U	0.043	0.076	0.029 U
Naphthalene	1.8	0.029 U	0.029 U	0.062	0.22	0.029 U
Phenanthrene	--	0.029 U	0.029 U	0.19	0.38	0.029 U
Pyrene	--	0.029 U	0.029 U	0.14	0.088	0.029 U
PCBs (mg/kg)						
Aroclor 1016	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1221	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1232	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1242	--	0.093 U	0.094 U	0.1 U	0.28	0.097 U
Aroclor 1248	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1254	--	0.19 U	0.19 U	0.21 U	0.26	0.19 U
Aroclor 1260	--	0.19 U	0.19 U	0.21 U	0.2 U	0.19 U
Total PCBs	--	0.845 U	0.850 U	0.920 U	1.136	0.865 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	1.1 UJ	1 UJ	1.3 UJ	NA	1 UJ
Arsenic	25,000	10 J	8.3 J	9.5	NA	9 J
Barium	870,000	88 J	87 J	170 J	NA	91 J
Beryllium	44,000	1.1	1.1	1.2	NA	1.1
Cadmium	59,000	0.56 U	0.52 U	0.85	NA	0.5 U
Chromium	690	16 J	19 J	16 J	NA	21 J
Copper	--	33 J	28 J	73 J	NA	30 J
Lead	--	19	17	69 J	NA	19
Mercury	52,000	0.029 U	0.028 U	0.18	NA	0.03 U
Nickel	440,000	36 J	28 J	20 J	NA	33 J
Selenium	--	1.1 U	1 U	1.3 U	NA	1 U
Silver	--	1.1 U	1 U	1.3 U	NA	1 U
Thallium	--	2.2	1.9	1.9	NA	1.9
Zinc	--	52 J	45 J	100 J	NA	46 J
Total Cyanide	--	0.32 U	0.27 U	0.35 U	NA	0.27 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) PCBs - Polychlorinated Biphenyls.

(6) J - Indicates an estimated value.

(7) NA - Not analyzed.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP44-001 0-0.5	SP44-002 6-7	SP44-003 12-13	SB45-001 0-0.5	SB46-001 10-12
TCL Volatiles (mg/kg)						
Acetone	100,000	0.079 U	0.082	0.069 U	0.065	0.036 U
Benzene	2.2	0.016 U	0.0089 U	0.014 U	0.12	0.0073 U
Bromodichloromethane	3,000	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Bromoform	140	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Bromomethane	3.9	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
2-Butanone	--	0.031 U	0.018 U	0.028 U	0.034	0.015 U
Carbon Disulfide	9	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Carbon Tetrachloride	0.9	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Chlorobenzene	1.3	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Chloroethane +	94	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
Chloroform	0.76	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Chloromethane +	1.1	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Dibromochloromethane	1,300	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,1-Dichloroethane	130	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,2-Dichloroethane	0.99	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,1-Dichloroethene	300	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
cis-1,2-Dichloroethene	1,200	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
trans-1,2-Dichloroethene	3,100	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,2-Dichloropropane	0.5	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
cis-1,3-Dichloropropene	0.39	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
trans-1,3-Dichloropropene	0.39	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Ethylbenzene	58	0.016 U	0.0089 U	0.014 U	0.37	0.0073 U
2-Hexanone +	0.72	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
4-Methyl-2-Pentanone	--	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
Methylene Chloride	34	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
Methyl tert-butyl ether	140	NA	NA	NA	NA	0.0073 U
Styrene	430	0.016 U	0.0089 U	0.014 U	0.014	0.0073 U
1,1,2,2-Tetrachloroethane +	2,000	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Tetrachloroethene	28	0.023	0.0089 U	0.014 U	0.0094 U	0.0073 U
Toluene	42	0.016 U	0.0089 U	0.014 U	0.025	0.0073 U
1,1,1-Trichloroethane	1,200	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,1,2-Trichloroethane	1,800	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Trichloroethene	12	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Vinyl Chloride	1.1	0.031 U	0.018 U	0.028 U	0.019 U	0.0073 U
m,p-Xylene*	320	0.016 U	0.0089 U	0.014 U	0.057	NA
o-Xylene*	320	0.016 U	0.0089 U	0.014 U	0.17	NA
Xylenes, Total	320	NA	NA	NA	NA	0.015 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP44-001 0-0.5	SP44-002 6-7	SP44-003 12-13	SB45-001 0-0.5	SB46-001 10-12
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Bis(2-chloroethyl)ether **	0.66	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Bis(2-ethylhexyl)phthalate	31,000	9.7	0.4 U	0.39 U	2.1	0.43 U
4-Bromophenyl phenyl ether	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Butyl benzyl phthalate	930	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Carbazole	--	1.9 U	0.4 U	0.39 U	0.87	0.87
4-Chloro-3-methylphenol	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4-Chloroaniline	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Chloronaphthalene	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Chlorophenol	53,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4-Chlorophenyl phenyl ether	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Dibenzofuran	--	1.9 U	0.4 U	0.39 U	0.35 U	1.8
1,2-Dichlorobenzene	310	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
1,3-Dichlorobenzene +	570	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
1,4-Dichlorobenzene	340	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
3,3´-Dichlorobenzidine	--	3.9 U	0.79 U	0.77 U	0.69 U	0.86 U
2,4-Dichlorophenol	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Diethyl phthalate	2,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Dimethyl phthalate +	1,300	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Di-n-butyl phthalate	2,300	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2,4-Dimethylphenol	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4,6-Dinitro-2-methylphenol	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
2,4-Dinitrophenol	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
2,4-Dinitrotoluene	--	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
2,6-Dinitrotoluene	--	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
Di-n-octyl phthalate	10,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachlorobenzene	2.6	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachlorobutadiene +	180	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachlorocyclopentadiene **	1.1	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachloroethane	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Isophorone	4,600	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Methylnaphthalene	--	1.9 U	0.4 U	0.39 U	1.7	2.8
2-Methylphenol	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4-Methylphenol	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Nitroaniline + **	7.5	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
3-Nitroaniline	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
4-Nitroaniline	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
Nitrobenzene	9.4	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
2-Nitrophenol	--	9.4 U	1.9 U	1.9 U	1.7 U	0.43 U
4-Nitrophenol	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
N-Nitrosodi-n-propylamine	--	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
N-Nitrosodiphenylamine	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2, 2'-Oxybis(1-Chloropropane)	--	0.082 U	0.017 U	0.016 U	0.015 U	0.43 U
Pentachlorophenol	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
Phenol	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
1,2,4-Trichlorobenzene	920	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2,4,5-Trichlorophenol	--	3.9 U	0.79 U	0.77 U	0.69 U	0.86 U
2,4,6-Trichlorophenol	540	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) ** Several values exceeded non-TACO or TACO screening levels but were consistently non-detect so no values were shaded.
(7) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP44-001 0-0.5	SP44-002 6-7	SP44-003 12-13	SB45-001 0-0.5	SB46-001 10-12
PAHs (mg/kg)						
Acenaphthene	--	0.15 U	0.03 U	0.029 U	0.74	4.9
Acenaphthylene	--	0.15 U	0.03 U	0.029 U	0.65	0.73
Anthracene	--	0.16	0.03 U	0.029 U	1.9	6.4
Benzo(a)anthracene	--	0.15 U	0.03 U	0.029 U	2.5	5.8
Benzo(b)fluoranthene	--	0.78	0.03 U	0.029 U	2	4.5
Benzo(k)fluoranthene	--	0.81	0.03 U	0.029 U	1.9	4.1
Benzo(g,h,i)perylene	--	1.1	0.03 U	0.029 U	1.3	2.7
Benzo(a)pyrene	--	0.45	0.03 U	0.029 U	2.4	5.9
Chrysene	--	0.83	0.03 U	0.029 U	3.9	5.4
Dibenzo(a,h)anthracene	--	0.25	0.03 U	0.029 U	0.37	0.83
Fluoranthene	--	0.45	0.03 U	0.029 U	4.1	13
Fluorene	--	0.15 U	0.03 U	0.029 U	1.2	3.8
Indeno(1,2,3-cd)pyrene	--	0.69	0.03 U	0.029 U	0.94	2.4
Naphthalene	1.8	0.15 U	0.03 U	0.029 U	1.8	6.5
Phenanthrene	--	0.42	0.03 U	0.029 U	3.6	17
Pyrene	--	0.64	0.03 U	0.029 U	6.8	14
PCBs (mg/kg)						
Aroclor 1016	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1221	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1232	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1242	--	1.5	0.096 U	0.093 U	5.2 U	NA
Aroclor 1248	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1254	--	1	0.19 U	0.19 U	5.2 U	NA
Aroclor 1260	--	0.19 U	0.19 U	0.19 U	0.17 U	NA
Total PCBs	--	3.066	0.860 U	0.845 U	10.906 U	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	0.98 J	1.1 UJ	1.2 UJ	0.95 UJ	NA
Arsenic	25,000	3.8	13 J	9.3 J	7.6	NA
Barium	870,000	140 J	79 J	94 J	59 J	NA
Beryllium	44,000	1.1	1.2	1.2	0.63	NA
Cadmium	59,000	1.5	0.57 U	0.58 U	1.1	NA
Chromium	690	21 J	20 J	20 J	13 J	NA
Copper	--	79 J	31 J	33 J	42 J	NA
Lead	--	210 J	19	20	240 J	NA
Mercury	52,000	0.38	0.03 U	0.026 U	0.3	NA
Nickel	440,000	16 J	39 J	35 J	17 J	NA
Selenium	--	0.94 U	1.1 U	1.2 U	0.95 U	NA
Silver	--	0.94 U	1.1 U	1.2 U	0.95 U	NA
Thallium	--	1.3	1.8	2.3	0.95 U	NA
Zinc	--	290 J	52 J	45 J	140 J	NA
Total Cyanide	--	0.28 U	0.32 U	0.31 U	1.3	NA

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) NA - Not analyzed.

(8) J - Indicates an estimated value.

(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB46-002 16 -18	SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10	SB48-002 18 - 20
TCL Volatiles (mg/kg)						
Acetone	100,000	0.031 U	0.035 U	0.032 U	0.036 U	0.03 U
Benzene	2.2	0.0062 U	0.05	0.0065 U	0.0072 U	0.0059 U
Bromodichloromethane	3,000	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Bromoform	140	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Bromomethane	3.9	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
2-Butanone	--	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Carbon Disulfide	9	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Carbon Tetrachloride	0.9	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Chlorobenzene	1.3	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Chloroethane +	94	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Chloroform	0.76	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Chloromethane +	1.1	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Dibromochloromethane	1,300	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1-Dichloroethane	130	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,2-Dichloroethane	0.99	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1-Dichloroethene	300	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
cis-1,2-Dichloroethene	1,200	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
trans-1,2-Dichloroethene	3,100	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,2-Dichloropropane	0.5	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
cis-1,3-Dichloropropene	0.39	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
trans-1,3-Dichloropropene	0.39	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Ethylbenzene	58	0.0062 U	0.33	0.0065 U	0.0072 U	0.0059 U
2-Hexanone +	0.72	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
4-Methyl-2-Pentanone	--	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Methylene Chloride	34	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Methyl tert-butyl ether	140	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Styrene	430	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1,2,2-Tetrachloroethane +	2,000	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Tetrachloroethene	28	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Toluene	42	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1,1-Trichloroethane	1,200	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1,2-Trichloroethane	1,800	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Trichloroethene	12	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Vinyl Chloride	1.1	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
m,p-Xylene*	320	NA	NA	NA	NA	NA
o-Xylene*	320	NA	NA	NA	NA	NA
Xylenes, Total	320	0.012 U	0.26	0.013 U	0.014 U	0.012 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB46-002 16 -18	SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10	SB48-002 18 - 20
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Bis(2-chloroethyl)ether	0.66	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Bis(2-ethylhexyl)phthalate	31,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Bromophenyl phenyl ether	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Butyl benzyl phthalate	930	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Carbazole	--	0.42 U	1.1	0.41 U	0.57	0.41 U
4-Chloro-3-methylphenol	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Chloroaniline	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Chloronaphthalene	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Chlorophenol	53,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Dibenzofuran	--	0.42 U	2.5	0.41 U	1.5	0.41 U
1,2-Dichlorobenzene	310	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
1,3-Dichlorobenzene +	570	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
1,4-Dichlorobenzene	340	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
3,3´-Dichlorobenzidine	--	0.83 U	0.88 U	0.82 U	0.89 U	0.82 U
2,4-Dichlorophenol	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Diethyl phthalate	2,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Dimethyl phthalate +	1,300	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Di-n-butyl phthalate	2,300	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2,4-Dimethylphenol	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4,6-Dinitro-2-methylphenol	--	2 U	2.1 U	2 U	2.2 U	2 U
2,4-Dinitrophenol	--	2 U	2.1 U	2 U	2.2 U	2 U
2,4-Dinitrotoluene	--	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
2,6-Dinitrotoluene	--	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
Di-n-octyl phthalate	10,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachlorobenzene	2.6	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachlorobutadiene +	180	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachlorocyclopentadiene	1.1	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachloroethane	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Isophorone	4,600	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Methylnaphthalene	--	0.42 U	27	0.41 U	2.5	1.1
2-Methylphenol	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Methylphenol	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Nitroaniline +	7.5	2 U	2.1 U	2 U	2.2 U	2 U
3-Nitroaniline	--	2 U	2.1 U	2 U	2.2 U	2 U
4-Nitroaniline	--	2 U	2.1 U	2 U	2.2 U	2 U
Nitrobenzene	9.4	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
2-Nitrophenol	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Nitrophenol	--	2 U	2.1 U	2 U	2.2 U	2 U
N-Nitrosodi-n-propylamine	--	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
N-Nitrosodiphenylamine	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2, 2'-Oxybis(1-Chloropropane)	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Pentachlorophenol	--	2 U	2.1 U	2 U	2.2 U	2 U
Phenol	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
1,2,4-Trichlorobenzene	920	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2,4,5-Trichlorophenol	--	0.83 U	0.88 U	0.82 U	0.89 U	0.82 U
2,4,6-Trichlorophenol	540	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB46-002 16 -18	SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10	SB48-002 18 - 20
PAHs (mg/kg)						
Acenaphthene	--	0.17	22	0.074	5.9	0.41
Acenaphthylene	--	0.033	2.7	0.031 U	0.99	0.031 U
Anthracene	--	0.19	11	0.031 U	9.5	0.16
Benzo(a)anthracene	--	0.17	9	0.032	8.6	0.11
Benzo(b)fluoranthene	--	0.075	4.5	0.031 U	5.5	0.063
Benzo(k)fluoranthene	--	0.12	5.1	0.031 U	6.2	0.082
Benzo(g,h,i)perylene	--	0.046	3.9	0.031 U	5.5	0.034
Benzo(a)pyrene	--	0.086	4.6	0.031 U	9.8	0.088
Chrysene	--	0.2	8	0.048	8.1	0.14
Dibenzo(a,h)anthracene	--	0.031 U	0.91	0.031 U	1.2	0.031 U
Fluoranthene	--	0.42	20	0.072	20	0.22
Fluorene	--	0.13	13	0.04	3.5	0.26
Indeno(1,2,3-cd)pyrene	--	0.035	2.5	0.031 U	4.2	0.031 U
Naphthalene	1.8	0.4	33	0.13	5.3	7.8
Phenanthrene	--	0.6	43	0.12	21	0.52
Pyrene	--	0.52	26	0.088	22	0.21
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	--	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	NA	NA	NA	NA	NA
Arsenic	25,000	NA	NA	NA	NA	NA
Barium	870,000	NA	NA	NA	NA	NA
Beryllium	44,000	NA	NA	NA	NA	NA
Cadmium	59,000	NA	NA	NA	NA	NA
Chromium	690	NA	NA	NA	NA	NA
Copper	--	NA	NA	NA	NA	NA
Lead	--	NA	NA	NA	NA	NA
Mercury	52,000	NA	NA	NA	NA	NA
Nickel	440,000	NA	NA	NA	NA	NA
Selenium	--	NA	NA	NA	NA	NA
Silver	--	NA	NA	NA	NA	NA
Thallium	--	NA	NA	NA	NA	NA
Zinc	--	NA	NA	NA	NA	NA
Total Cyanide	--	NA	NA	NA	NA	NA

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) NA - Not analyzed.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB49-001 8 - 10	SB49B-001 14 - 16	SB50-002 14 - 16	SB50-003 20 - 22	SB51-001 10 -12
TCL Volatiles (mg/kg)						
Acetone	100,000	0.029 U	0.031 U	1.9 U	0.037 UJ	0.03 U
Benzene	2.2	0.0059 U	0.0063 U	2.9	0.0073 UJ	3.7
Bromodichloromethane	3,000	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Bromoform	140	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Bromomethane	3.9	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
2-Butanone	--	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Carbon Disulfide	9	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Carbon Tetrachloride	0.9	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Chlorobenzene	1.3	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Chloroethane +	94	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Chloroform	0.76	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Chloromethane +	1.1	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Dibromochloromethane	1,300	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1-Dichloroethane	130	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,2-Dichloroethane	0.99	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1-Dichloroethene	300	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
cis-1,2-Dichloroethene	1,200	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
trans-1,2-Dichloroethene	3,100	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,2-Dichloropropane	0.5	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
cis-1,3-Dichloropropene	0.39	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
trans-1,3-Dichloropropene	0.39	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Ethylbenzene	58	0.0059 U	0.0063 U	30	0.56	5.8
2-Hexanone + **	0.72	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
4-Methyl-2-Pentanone	--	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Methylene Chloride	34	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Methyl tert-butyl ether	140	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Styrene	430	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1,2,2-Tetrachloroethane +	2,000	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Tetrachloroethene	28	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Toluene	42	0.0059 U	0.0063 U	0.38 U	0.018 J	0.0094
1,1,1-Trichloroethane	1,200	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1,2-Trichloroethane	1,800	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Trichloroethene	12	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Vinyl Chloride	1.1	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
m,p-Xylene*	320	NA	NA	NA	NA	NA
o-Xylene*	320	NA	NA	NA	NA	NA
Xylenes, Total	320	0.012 U	0.013 U	21	2.1 J	3.9

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) Shaded value exceeds Tier 1 screening level.
(5) J - Indicates an estimated value.
(6) -- Toxicity criteria not available for exposure route.
(7) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(8) NA - Not analyzed.
(9) * The "total xylenes" screening level was used because it is more conservative.
(10) ** Several values exceeded non-TACO screening level but were consistently non-detect, so no values were shaded.
(11) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB49-001 8 - 10	SB49B-001 14 - 16	SB50-002 14 - 16	SB50-003 20 - 22	SB51-001 10 -12
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Bis(2-chloroethyl)ether	0.66	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Bis(2-ethylhexyl)phthalate	31,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Bromophenyl phenyl ether	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Butyl benzyl phthalate	930	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Carbazole	--	0.42 U	0.41 U	0.46 U	0.45 U	4.8
4-Chloro-3-methylphenol	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Chloroaniline	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Chloronaphthalene	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Chlorophenol	53,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Dibenzofuran	--	0.42 U	0.41 U	1.2	0.45 U	3.4
1,2-Dichlorobenzene	310	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
1,3-Dichlorobenzene +	570	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
1,4-Dichlorobenzene	340	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
3,3´-Dichlorobenzidine	--	0.84 U	0.82 U	0.91 U	0.89 U	0.87 U
2,4-Dichlorophenol	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Diethyl phthalate	2,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Dimethyl phthalate +	1,300	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Di-n-butyl phthalate	2,300	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2,4-Dimethylphenol	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4,6-Dinitro-2-methylphenol	--	2 U	2 U	2.2 U	2.2 U	2.1 U
2,4-Dinitrophenol	--	2 U	2 U	2.2 U	2.2 U	2.1 U
2,4-Dinitrotoluene	--	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
2,6-Dinitrotoluene	--	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
Di-n-octyl phthalate	10,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachlorobenzene	2.6	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachlorobutadiene +	180	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachlorocyclopentadiene	1.1	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachloroethane	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Isophorone	4,600	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Methylnaphthalene	--	0.42 U	0.41 U	7.5	0.45 U	52
2-Methylphenol	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Methylphenol	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Nitroaniline +	7.5	2 U	2 U	2.2 U	2.2 U	2.1 U
3-Nitroaniline	--	2 U	2 U	2.2 U	2.2 U	2.1 U
4-Nitroaniline	--	2 U	2 U	2.2 U	2.2 U	2.1 U
Nitrobenzene	9.4	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
2-Nitrophenol	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Nitrophenol	--	2 U	2 U	2.2 U	2.2 U	2.1 U
N-Nitrosodi-n-propylamine	--	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
N-Nitrosodiphenylamine	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2, 2'-Oxybis(1-Chloropropane)	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Pentachlorophenol	--	2 U	2 U	2.2 U	2.2 U	2.1 U
Phenol	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
1,2,4-Trichlorobenzene	920	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2,4,5-Trichlorophenol	--	0.84 U	0.82 U	0.91 U	0.89 U	0.87 U
2,4,6-Trichlorophenol	540	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB49-001 8 - 10	SB49B-001 14 - 16	SB50-002 14 - 16	SB50-003 20 - 22	SB51-001 10 -12
PAHs (mg/kg)						
Acenaphthene	--	0.32	0.031 U	3	0.086	28
Acenaphthylene	--	0.19	0.031 U	0.44	0.034 U	4.1
Anthracene	--	0.44	0.031 U	2.6	0.18	20
Benzo(a)anthracene	--	1	0.035	3.9	0.42	17
Benzo(b)fluoranthene	--	0.78	0.031 U	2.4	0.27	8.2
Benzo(k)fluoranthene	--	0.74	0.032	3.8	0.38	7.4
Benzo(g,h,i)perylene	--	0.68	0.031 U	0.74	0.077	8
Benzo(a)pyrene	--	1	0.041	4.4	0.46	16
Chrysene	--	1	0.053	3.1	0.42	17
Dibenzo(a,h)anthracene	--	0.11	0.031 U	0.24	0.037	1.4
Fluoranthene	--	1.9	0.058	7.2	0.66	36
Fluorene	--	0.24	0.031 U	2.2	0.098	21
Indeno(1,2,3-cd)pyrene	--	0.55	0.031 U	0.89	0.098	6.2
Naphthalene	1.8	0.2	0.041	44	0.52	67
Phenanthrene	--	1.3	0.079	8.7	0.46	78
Pyrene	--	2.1	0.078	6.4	0.55	50
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	--	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	NA	NA	NA	NA	NA
Arsenic	25,000	NA	NA	NA	NA	NA
Barium	870,000	NA	NA	NA	NA	NA
Beryllium	44,000	NA	NA	NA	NA	NA
Cadmium	59,000	NA	NA	NA	NA	NA
Chromium	690	NA	NA	NA	NA	NA
Copper	--	NA	NA	NA	NA	NA
Lead	--	NA	NA	NA	NA	NA
Mercury	52,000	NA	NA	NA	NA	NA
Nickel	440,000	NA	NA	NA	NA	NA
Selenium	--	NA	NA	NA	NA	NA
Silver	--	NA	NA	NA	NA	NA
Thallium	--	NA	NA	NA	NA	NA
Zinc	--	NA	NA	NA	NA	NA
Total Cyanide	--	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) NA - Not analyzed.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20
TCL Volatiles (mg/kg)							
Acetone	100,000	0.027 U	1.4 U	0.027 UJ	0.036 U	0.1	0.031 UJ
Benzene	2.2	0.0055 U	2.6	0.0089 J	0.0086	0.21	0.0062 UJ
Bromodichloromethane	3,000	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Bromoform	140	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Bromomethane	3.9	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
2-Butanone	--	0.011 U	0.55 U	0.011 UJ	0.015 U	0.023	0.012 UJ
Carbon Disulfide	9	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Carbon Tetrachloride	0.9	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Chlorobenzene	1.3	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Chloroethane +	94	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
Chloroform	0.76	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Chloromethane +	1.1	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Dibromochloromethane	1,300	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1-Dichloroethane	130	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,2-Dichloroethane	0.99	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1-Dichloroethene	300	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
cis-1,2-Dichloroethene	1,200	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
trans-1,2-Dichloroethene	3,100	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,2-Dichloropropane	0.5	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
cis-1,3-Dichloropropene	0.39	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
trans-1,3-Dichloropropene	0.39	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Ethylbenzene	58	0.0055 U	11	0.043 J	0.0073 U	1.2	0.0062 UJ
2-Hexanone +	0.72	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
4-Methyl-2-Pentanone	--	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
Methylene Chloride	34	0.011 U	0.55 U	0.011 UJ	0.018	0.035	0.026 J
Methyl tert-butyl ether	140	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Styrene	430	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1,2,2-Tetrachloroethane +	2,000	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Tetrachloroethene	28	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Toluene	42	0.0055 U	0.7	0.0097 J	0.0073 U	0.013	0.0062 UJ
1,1,1-Trichloroethane	1,200	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1,2-Trichloroethane	1,800	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Trichloroethene	12	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Vinyl Chloride	1.1	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
m,p-Xylene*	320	NA	NA	NA	NA	NA	NA
o-Xylene*	320	NA	NA	NA	NA	NA	NA
Xylenes, Total	320	0.024	9.8	0.055 J	0.015 U	1.7	0.012 UJ

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) Shaded value exceeds Tier 1 screening level.
(5) J - Indicates an estimated value.
(6) -- Toxicity criteria not available for exposure route.
(7) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(8) NA - Not analyzed.
(9) * The "total xylenes" screening level was used because it is more conservative.
(10) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20
TCL Semivolatiles (mg/kg)							
Bis(2-chloroethoxy)methane	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Bis(2-chloroethyl)ether	0.66	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Bis(2-ethylhexyl)phthalate	31,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Bromophenyl phenyl ether	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Butyl benzyl phthalate	930	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Carbazole	--	0.41 U	0.4 U	0.39 U	0.41 U	5.1	0.4 U
4-Chloro-3-methylphenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Chloroaniline	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Chloronaphthalene	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Chlorophenol	53,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Chlorophenyl phenyl ether	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Dibenzofuran	--	0.82	0.91	0.39 U	0.41 U	4.9	0.4 U
1,2-Dichlorobenzene	310	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
1,3-Dichlorobenzene +	570	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
1,4-Dichlorobenzene	340	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
3,3´-Dichlorobenzidine	--	0.82 U	0.8 U	0.77 U	0.82 U	0.85 U	0.8 U
2,4-Dichlorophenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Diethyl phthalate	2,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Dimethyl phthalate +	1,300	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Di-n-butyl phthalate	2,300	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2,4-Dimethylphenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4,6-Dinitro-2-methylphenol	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
2,4-Dinitrophenol	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
2,4-Dinitrotoluene	--	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
2,6-Dinitrotoluene	--	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
Di-n-octyl phthalate	10,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachlorobenzene	2.6	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachlorobutadiene +	180	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachlorocyclopentadiene	1.1	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachloroethane	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Isophorone	4,600	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Methylnaphthalene	--	4.5	19	1.8	0.41 U	37	0.4 U
2-Methylphenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Methylphenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Nitroaniline +	7.5	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
3-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
4-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
Nitrobenzene	9.4	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
2-Nitrophenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Nitrophenol	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
N-Nitrosodiphenylamine	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Pentachlorophenol	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
Phenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
1,2,4-Trichlorobenzene	920	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2,4,5-Trichlorophenol	--	0.82 U	0.8 U	0.77 U	0.82 U	0.85 U	0.8 U
2,4,6-Trichlorophenol	540	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20
PAHs (mg/kg)							
Acenaphthene	--	2.4	3.7	0.19	2	16	0.11
Acenaphthylene	--	0.47	1	0.066	1.6	2.4	0.046
Anthracene	--	2.2	2.2	0.12	2.6	16	0.12
Benzo(a)anthracene	--	2.3	1.8	0.091	5.2	14	0.12
Benzo(b)fluoranthene	--	1.2	0.71	0.038	1.4	6.4	0.054
Benzo(k)fluoranthene	--	1.1	0.31	0.035	1.8	6.5	0.076
Benzo(g,h,i)perylene	--	0.57	0.18	0.029 U	1	1.6	0.042
Benzo(a)pyrene	--	1.7	1.3	0.07	4.8	11	0.099
Chrysene	--	2	1.7	0.096	6.8	15	0.14
Dibenzo(a,h)anthracene	--	0.11	0.1	0.029 U	0.5	1.2	0.03 U
Fluoranthene	--	3.7	2.7	0.15	7.8	24	0.22
Fluorene	--	2.5	3.6	0.2	4	19	0.13
Indeno(1,2,3-cd)pyrene	--	0.59	0.35	0.029 U	0.92	1.8	0.031
Naphthalene	1.8	6.1	22	2.3	1.5	41	0.24
Phenanthrene	--	7.6	11	0.65	14	57	0.48
Pyrene	--	4.2	4.5	0.22	12	27	0.27
PCBs (mg/kg)							
Aroclor 1016	--	NA	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA	NA
Total PCBs	--	NA	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)							
Antimony	--	NA	NA	NA	NA	NA	NA
Arsenic	25,000	NA	NA	NA	NA	NA	NA
Barium	870,000	NA	NA	NA	NA	NA	NA
Beryllium	44,000	NA	NA	NA	NA	NA	NA
Cadmium	59,000	NA	NA	NA	NA	NA	NA
Chromium	690	NA	NA	NA	NA	NA	NA
Copper	--	NA	NA	NA	NA	NA	NA
Lead	--	NA	NA	NA	NA	NA	NA
Mercury	52,000	NA	NA	NA	NA	NA	NA
Nickel	440,000	NA	NA	NA	NA	NA	NA
Selenium	--	NA	NA	NA	NA	NA	NA
Silver	--	NA	NA	NA	NA	NA	NA
Thallium	--	NA	NA	NA	NA	NA	NA
Zinc	--	NA	NA	NA	NA	NA	NA
Total Cyanide	--	NA	NA	NA	NA	NA	NA

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) NA - Not analyzed.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB54-001 8 - 10	SB54-002 14 - 16	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20
TCL Volatiles (mg/kg)						
Acetone	100,000	3.2 U	0.027 U	0.026	0.032 U	0.028 U
Benzene	2.2	5.7	0.0054 U	0.064	0.0064 U	0.0056 U
Bromodichloromethane	3,000	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Bromoform	140	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Bromomethane	3.9	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
2-Butanone	--	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Carbon Disulfide	9	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Carbon Tetrachloride	0.9	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Chlorobenzene	1.3	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Chloroethane +	94	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Chloroform	0.76	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Chloromethane +	1.1	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Dibromochloromethane	1,300	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,1-Dichloroethane	130	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,2-Dichloroethane	0.99	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,1-Dichloroethene	300	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
cis-1,2-Dichloroethene	1,200	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
trans-1,2-Dichloroethene	3,100	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,2-Dichloropropane **	0.5	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
cis-1,3-Dichloropropene **	0.39	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
trans-1,3-Dichloropropene **	0.39	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Ethylbenzene	58	25	0.0054 U	0.11	0.0064 U	0.0056 U
2-Hexanone + **	0.72	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
4-Methyl-2-Pentanone	--	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Methylene Chloride	34	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Methyl tert-butyl ether	140	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Styrene	430	0.64 U	0.0054 U	0.016	0.0064 U	0.0056 U
1,1,2,2-Tetrachloroethane +	2,000	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Tetrachloroethene	28	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Toluene	42	0.84	0.0054 U	0.066	0.0064 U	0.0056 U
1,1,1-Trichloroethane	1,200	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,1,2-Trichloroethane	1,800	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Trichloroethene	12	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Vinyl Chloride	1.1	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
m,p-Xylene*	320	NA	NA	NA	NA	NA
o-Xylene*	320	NA	NA	NA	NA	NA
Xylenes, Total	320	8.7	0.011 U	0.18	0.013 U	0.011 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) Shaded value exceeds Tier 1 screening level.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) ** Several values exceeded non-TACO or TACO screening levels but were consistently non-detect, so no values were shaded.
(10) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB54-001 8 - 10	SB54-002 14 - 16	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Bis(2-chloroethyl)ether	0.66	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Bis(2-ethylhexyl)phthalate	31,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Bromophenyl phenyl ether	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Butyl benzyl phthalate	930	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Carbazole	--	0.51	0.4 U	0.39 U	0.4 U	0.4 U
4-Chloro-3-methylphenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Chloroaniline	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Chloronaphthalene	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Chlorophenol	53,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Dibenzofuran	--	1.9	0.4 U	0.39 U	0.4 U	0.4 U
1,2-Dichlorobenzene	310	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
1,3-Dichlorobenzene +	570	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
1,4-Dichlorobenzene	340	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
3,3´-Dichlorobenzidine	--	0.84 U	0.79 U	0.79 U	0.81 U	0.81 U
2,4-Dichlorophenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Diethyl phthalate	2,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Dimethyl phthalate +	1,300	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Di-n-butyl phthalate	2,300	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2,4-Dimethylphenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4,6-Dinitro-2-methylphenol	--	2 U	1.9 U	1.9 U	2 U	2 U
2,4-Dinitrophenol	--	2 U	1.9 U	1.9 U	2 U	2 U
2,4-Dinitrotoluene	--	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
2,6-Dinitrotoluene	--	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
Di-n-octyl phthalate	10,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachlorobenzene	2.6	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachlorobutadiene +	180	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachlorocyclopentadiene	1.1	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachloroethane	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Isophorone	4,600	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Methylnaphthalene	--	45	0.4 U	0.8	0.4 U	0.4 U
2-Methylphenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Methylphenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Nitroaniline +	7.5	2 U	1.9 U	1.9 U	2 U	2 U
3-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2 U
4-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2 U
Nitrobenzene	9.4	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
2-Nitrophenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Nitrophenol	--	2 U	1.9 U	1.9 U	2 U	2 U
N-Nitrosodi-n-propylamine	--	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
N-Nitrosodiphenylamine	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Pentachlorophenol	--	2 U	1.9 U	1.9 U	2 U	2 U
Phenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
1,2,4-Trichlorobenzene	920	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2,4,5-Trichlorophenol	--	0.84 U	0.79 U	0.79 U	0.81 U	0.81 U
2,4,6-Trichlorophenol	540	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).

(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB54-001 8 - 10	SB54-002 14 - 16	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20
PAHs (mg/kg)						
Acenaphthene	--	12	0.046	0.078	0.03 U	0.031 U
Acenaphthylene	--	4	0.03 U	0.089	0.03 U	0.031 U
Anthracene	--	7.4	0.046	0.099	0.03 U	0.031 U
Benzo(a)anthracene	--	5.4	0.037	0.098	0.03 U	0.031 U
Benzo(b)fluoranthene	--	2.6	0.03 U	0.054	0.03 U	0.031 U
Benzo(k)fluoranthene	--	2.1	0.03 U	0.05	0.03 U	0.031 U
Benzo(g,h,i)perylene	--	1.8	0.03 U	0.033	0.03 U	0.031 U
Benzo(a)pyrene	--	4.8	0.034	0.092	0.03 U	0.031 U
Chrysene	--	5.3	0.045	0.1	0.03 U	0.031 U
Dibenzo(a,h)anthracene	--	0.6	0.03 U	0.029 U	0.03 U	0.031 U
Fluoranthene	--	9.6	0.062	0.16	0.03 U	0.031 U
Fluorene	--	9.3	0.049	0.15	0.03 U	0.031 U
Indeno(1,2,3-cd)pyrene	--	1.6	0.03 U	0.029 U	0.03 U	0.031 U
Naphthalene	1.8	110	0.26	0.95	0.03 U	0.031 U
Phenanthrene	--	27	0.15	0.58	0.067	0.037
Pyrene	--	14	0.095	0.31	0.03 U	0.031 U
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	--	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	NA	NA	NA	NA	NA
Arsenic	25,000	NA	NA	NA	NA	NA
Barium	870,000	NA	NA	NA	NA	NA
Beryllium	44,000	NA	NA	NA	NA	NA
Cadmium	59,000	NA	NA	NA	NA	NA
Chromium	690	NA	NA	NA	NA	NA
Copper	--	NA	NA	NA	NA	NA
Lead	--	NA	NA	NA	NA	NA
Mercury	52,000	NA	NA	NA	NA	NA
Nickel	440,000	NA	NA	NA	NA	NA
Selenium	--	NA	NA	NA	NA	NA
Silver	--	NA	NA	NA	NA	NA
Thallium	--	NA	NA	NA	NA	NA
Zinc	--	NA	NA	NA	NA	NA
Total Cyanide	--	NA	NA	NA	NA	NA

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) NA - Not analyzed.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB57-002 16 - 18	SB58-001 12 - 14	SB58-002 16 - 18	SB59-001 6 - 8	SB59-002 16 - 18
TCL Volatiles (mg/kg)						
Acetone	100,000	0.028 U	0.047 U	0.031 UJ	0.028 U	0.033 U
Benzene	2.2	0.0057 U	0.0094 U	0.0061 UJ	0.031	0.0067 U
Bromodichloromethane	3,000	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Bromoform	140	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Bromomethane	3.9	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
2-Butanone	--	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
Carbon Disulfide	9	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Carbon Tetrachloride	0.9	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Chlorobenzene	1.3	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Chloroethane +	94	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
Chloroform	0.76	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Chloromethane +	1.1	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Dibromochloromethane	1,300	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1-Dichloroethane	130	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,2-Dichloroethane	0.99	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1-Dichloroethene	300	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
cis-1,2-Dichloroethene	1,200	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
trans-1,2-Dichloroethene	3,100	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,2-Dichloropropane	0.5	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
cis-1,3-Dichloropropene	0.39	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
trans-1,3-Dichloropropene	0.39	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Ethylbenzene	58	0.0057 U	0.0094 U	0.0061 UJ	0.071	0.0067 U
2-Hexanone +	0.72	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
4-Methyl-2-Pentanone	--	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
Methylene Chloride	34	0.011 U	0.019 U	0.012 UJ	0.017	0.016
Methyl tert-butyl ether	140	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Styrene	430	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1,2,2-Tetrachloroethane +	2,000	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Tetrachloroethene	28	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Toluene	42	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1,1-Trichloroethane	1,200	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1,2-Trichloroethane	1,800	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Trichloroethene	12	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Vinyl Chloride	1.1	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
m,p-Xylene*	320	NA	NA	NA	NA	NA
o-Xylene*	320	NA	NA	NA	NA	NA
Xylenes, Total	320	0.011 U	0.019 U	0.012 UJ	0.044	0.013 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) J - Indicates an estimated value.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB57-002 16 - 18	SB58-001 12 - 14	SB58-002 16 - 18	SB59-001 6 - 8	SB59-002 16 - 18
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Bis(2-chloroethyl)ether	0.66	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Bromophenyl phenyl ether	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Butyl benzyl phthalate	930	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Carbazole	--	0.39 U	6.8	0.41 U	0.39 U	0.38 U
4-Chloro-3-methylphenol	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Chloroaniline	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2-Chloronaphthalene	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2-Chlorophenol	53,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Dibenzofuran	--	0.39 U	4.6	0.41 U	0.39 U	0.38 U
1,2-Dichlorobenzene	310	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
1,3-Dichlorobenzene +	570	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
1,4-Dichlorobenzene	340	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
3,3´-Dichlorobenzidine	--	0.79 U	1.1 U	0.82 U	0.78 U	0.75 U
2,4-Dichlorophenol	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Diethyl phthalate	2,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Dimethyl phthalate +	1,300	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Di-n-butyl phthalate	2,300	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2,4-Dimethylphenol	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4,6-Dinitro-2-methylphenol	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
2,4-Dinitrophenol	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
2,4-Dinitrotoluene	--	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
2,6-Dinitrotoluene	--	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
Di-n-octyl phthalate	10,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachlorobenzene	2.6	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachlorobutadiene +	180	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachlorocyclopentadiene	1.1	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachloroethane	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Isophorone	4,600	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2-Methylnaphthalene	--	0.39 U	3.8	0.41 U	0.39 U	0.38 U
2-Methylphenol	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Methylphenol	--	0.39 U	2.2	0.41 U	0.39 U	0.38 U
2-Nitroaniline +	7.5	1.9 U	2.6 U	2 U	1.9 U	1.8 U
3-Nitroaniline	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
4-Nitroaniline	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
Nitrobenzene	9.4	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
2-Nitrophenol	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Nitrophenol	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
N-Nitrosodi-n-propylamine	--	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
N-Nitrosodiphenylamine	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Pentachlorophenol	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
Phenol	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
1,2,4-Trichlorobenzene	920	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2,4,5-Trichlorophenol	--	0.79 U	1.1 U	0.82 U	0.78 U	0.75 U
2,4,6-Trichlorophenol	540	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) + Screening level obtained from Table B: Soil Remediation Objectives for Industrial/Commercial Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 5 (Continued)
Tier 1 Screening: Soil Inhalation Exposure Route
Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB57-002 16 - 18	SB58-001 12 - 14	SB58-002 16 - 18	SB59-001 6 - 8	SB59-002 16 - 18
PAHs (mg/kg)						
Acenaphthene	--	0.03 U	4.3	0.072	0.029 U	0.028 U
Acenaphthylene	--	0.03 U	0.45	0.031 U	0.029 U	0.028 U
Anthracene	--	0.03 U	11	0.079	0.029 U	0.028 U
Benzo(a)anthracene	--	0.03 U	14	0.065	0.029 U	0.028 U
Benzo(b)fluoranthene	--	0.03 U	8.5	0.038	0.029 U	0.028 U
Benzo(k)fluoranthene	--	0.03 U	9.8	0.038	0.029 U	0.028 U
Benzo(g,h,i)perylene	--	0.03 U	3.2	0.031 U	0.029 U	0.028 U
Benzo(a)pyrene	--	0.03 U	12	0.059	0.029 U	0.028 U
Chrysene	--	0.037	12	0.061	0.029	0.028 U
Dibenzo(a,h)anthracene	--	0.03 U	1.6	0.031 U	0.029 U	0.028 U
Fluoranthene	--	0.056	27	0.14	0.029	0.028 U
Fluorene	--	0.03 U	6.2	0.088	0.029 U	0.028 U
Indeno(1,2,3-cd)pyrene	--	0.03 U	3.8	0.031 U	0.029 U	0.028 U
Naphthalene	1.8	0.054	4	0.39	0.087	0.028 U
Phenanthrene	--	0.11	27	0.24	0.089	0.075
Pyrene	--	0.057	23	0.11	0.05	0.028 U
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	--	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	--	NA	NA	NA	NA	NA
Arsenic	25,000	NA	NA	NA	NA	NA
Barium	870,000	NA	NA	NA	NA	NA
Beryllium	44,000	NA	NA	NA	NA	NA
Cadmium	59,000	NA	NA	NA	NA	NA
Chromium	690	NA	NA	NA	NA	NA
Copper	--	NA	NA	NA	NA	NA
Lead	--	NA	NA	NA	NA	NA
Mercury	52,000	NA	NA	NA	NA	NA
Nickel	440,000	NA	NA	NA	NA	NA
Selenium	--	NA	NA	NA	NA	NA
Silver	--	NA	NA	NA	NA	NA
Thallium	--	NA	NA	NA	NA	NA
Zinc	--	NA	NA	NA	NA	NA
Total Cyanide	--	NA	NA	NA	NA	NA

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) NA - Not analyzed.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-001 1-2	SB01-002 8-10	SP02-001 2-3	SP02-002 3-4	SP03-001 2-3
TCL Volatiles (mg/kg)						
Acetone	16	0.099	0.041 U	0.17	0.091	0.051
Benzene	0.17	0.0097 U	0.0082 U	0.055	0.015	0.0072 U
Bromodichloromethane	0.6	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Bromoform	0.8	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Bromomethane	1.2	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
2-Butanone	--	0.019 U	0.016 U	0.024 U	0.02	0.014 U
Carbon Disulfide	160	0.0097 U	0.0082 U	0.023	0.0081 U	0.0072 U
Carbon Tetrachloride	0.33	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Chlorobenzene	6.5	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Chloroethane +	70	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
Chloroform	2.9	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Chloromethane +	0.68	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Dibromochloromethane	0.4	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1-Dichloroethane	110	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,2-Dichloroethane	0.1	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1-Dichloroethene	0.3	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
cis-1,2-Dichloroethene	1.1	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
trans-1,2-Dichloroethene	3.4	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,2-Dichloropropane	0.15	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
cis-1,3-Dichloropropene	0.02	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
trans-1,3-Dichloropropene	0.02	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Ethylbenzene	19	0.0097 U	0.0082 U	0.044	0.049	0.0072 U
2-Hexanone +	1.3	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
4-Methyl-2-Pentanone	--	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
Methylene Chloride	0.2	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
Methyl tert-butyl ether	0.32	NA	NA	NA	NA	NA
Styrene	18	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1,2,2-Tetrachloroethane +	3.3	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Tetrachloroethene	0.3	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Toluene	29	0.0097 U	0.0082 U	0.036	0.0081 U	0.0072 U
1,1,1-Trichloroethane	9.6	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
1,1,2-Trichloroethane	0.3	0.0097 U	0.0082 U	0.012 U	0.0081 U	0.0072 U
Trichloroethene	0.3	0.0097 U	0.0082 U	0.021	0.0081 U	0.0072 U
Vinyl Chloride	0.07	0.019 U	0.016 U	0.024 U	0.016 U	0.014 U
m,p-Xylene*	150	0.0097 U	0.0082 U	0.028	0.0081 U	0.0072 U
o-Xylene*	150	0.0097 U	0.0082 U	0.025	0.012	0.0096
Xylenes, Total	150	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-001 1-2	SB01-002 8-10	SP02-001 2-3	SP02-002 3-4	SP03-001 2-3
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Bis(2-chloroethyl)ether**	0.0004	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Bis(2-ethylhexyl)phthalate	31,000	0.37 U	0.45	0.37 U	0.38 U	0.49
4-Bromophenyl phenyl ether	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Butyl benzyl phthalate	930	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Carbazole	2.8	0.37 U	0.38 U	0.52	0.47	2.9
4-Chloro-3-methylphenol +	120	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4-Chloroaniline	0.7	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Chloronaphthalene	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Chlorophenol	1.5	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4-Chlorophenyl phenyl ether	--	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Dibenzofuran +	76	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,2-Dichlorobenzene	43	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,3-Dichlorobenzene +	1.0	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,4-Dichlorobenzene	11	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
3,3´-Dichlorobenzidine**	0.033	0.74 U	0.76 U	0.75 U	0.75 U	0.71 U
2,4-Dichlorophenol	0.48	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Diethyl phthalate	470	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Dimethyl phthalate +	380	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Di-n-butyl phthalate	2,300	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2,4-Dimethylphenol	9	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4,6-Dinitro-2-methylphenol	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
2,4-Dinitrophenol**	0.2	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
2,4-Dinitrotoluene**	0.0008	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2,6-Dinitrotoluene**	0.0007	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Di-n-octyl phthalate	10,000	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachlorobenzene	11	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachlorobutadiene +	15	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachlorocyclopentadiene	2,200	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Hexachloroethane	2.6	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
Isophorone	8	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Methylnaphthalene +	39	0.37 U	0.38 U	0.85	0.38 U	0.57
2-Methylphenol	15	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
4-Methylphenol ++	0.66	0.37 U	0.38 U	0.56	0.38 U	0.36 U
2-Nitroaniline	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
3-Nitroaniline	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
4-Nitroaniline	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
Nitrobenzene**	0.1	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2-Nitrophenol	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
4-Nitrophenol	--	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
N-Nitrosodi-n-propylamine**	0.00005	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
N-Nitrosodiphenylamine	5.6	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.016 U	0.016 U	0.015 U
Pentachlorophenol**	0.10	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U
Phenol	100	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
1,2,4-Trichlorobenzene	53	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U
2,4,5-Trichlorophenol	26	0.74 U	0.76 U	0.75 U	0.75 U	0.71 U
2,4,6-Trichlorophenol **	0.07	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) Shaded value exceeds Tier 1 screening level.

(6) **Values exceeded TACO screening level but were consistently non-detect so no values were shaded.

(7) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(8) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).

(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-001 1-2	SB01-002 8-10	SP02-001 2-3	SP02-002 3-4	SP03-001 2-3
PAHs (mg/kg)						
Acenaphthene	2,900	0.037	0.029 U	0.45	0.19	0.69
Acenaphthylene +	120	0.032	0.029 U	1.2	0.13	0.32
Anthracene	59,000	0.27	0.16	1.5	0.3	0.75
Benzo(a)anthracene	8	0.34	0.34	3.5	0.43	2.5
Benzo(b)fluoranthene	25	0.44	0.32	2.2	0.36	1.8
Benzo(k)fluoranthene	250	0.44	0.26	2.7	0.39	1.6
Benzo(g,h,i)perylene +	160,000	0.31	0.23	2	0.48	0.94
Benzo(a)pyrene	82	0.32	0.21	3.1	0.52	2.3
Chrysene	800	0.71	0.67	4.1	0.62	2.5
Dibenzo(a,h)anthracene	7.6	0.16	0.099	0.81	0.13	0.39
Fluoranthene	21,000	1.4	1.1	6.2	0.85	4.1
Fluorene	2,800	0.067	0.029 U	0.63	0.21	0.65
Indeno(1,2,3-cd)pyrene	69	0.31	0.2	2	0.35	0.93
Naphthalene	18	0.36	0.044	0.84	0.28	0.75
Phenanthrene +	1,100	0.64	0.35	3.8	1	3.7
Pyrene	21,000	1.5	1.2	8.6	1.1	4.5
PCBs (mg/kg)						
Aroclor 1016	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1221	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1232	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1242	--	0.09 U	0.093 U	0.094	0.09 U	0.4
Aroclor 1248	--	0.09 U	0.093 U	0.09 U	0.09 U	0.084 U
Aroclor 1254	--	0.18 U	0.19 U	0.18 U	0.18 U	0.33
Aroclor 1260	--	0.18 U	0.19 U	0.18 U	0.18 U	0.16 U
Total PCBs	--	0.810 U	0.845 U	0.814	0.810 U	1.226
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	0.97 UJ	1 UJ	1 UJ	1 UJ	1.1 UJ
Arsenic*	120	8.1	9.2 J	6.5	2.5 J	7.2
Barium*	1,800	61 J	47 J	82 J	19 J	68 J
Beryllium*	130,000	0.75	0.87	1.1	0.63	1
Cadmium*	590	0.91	0.54	0.79	0.52 U	1.1
Chromium ***	21	14 J	20 J	15 J	6.9 J	20 J
Copper*	330,000	66 J	32 J	43 J	8.9 J	110 J
Lead**	--	380 J	41	130 J	31	150 J
Mercury*	32	0.35	0.28	0.15	0.035	0.076
Nickel*	14,000	17 J	33 J	20 J	5.5 J	23 J
Selenium*	1.3	0.97 U	1 U	1 U	1 U	1.1 U
Silver ***	39	0.97 U	1 U	1 U	1 U	1.1 U
Thallium*	34	0.97 U	4.2	1	1 U	1.1 U
Zinc*	32,000	160 J	70 J	90 J	23 J	290 J
Total Cyanide*	120	0.31 U	0.27 U	0.26 U	0.26 U	0.23 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) PCBs - Polychlorinated Biphenyls.

(6) J - Indicates an estimated value.

(7) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.

(8) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.

(9) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.

(10) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(11) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP03-002 4-5	SB04-001 5-7	SP05-001 2-3	SP05-002 9-10	SP06-001 2-3
TCL Volatiles (mg/kg)						
Acetone	16	0.32	0.061 U	0.067	0.061	0.073
Benzene	0.17	0.017 U	0.012 U	0.015	0.012 U	0.079
Bromodichloromethane	0.6	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Bromoform	0.8	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Bromomethane	1.2	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
2-Butanone	--	0.072	0.025 U	0.024 U	0.023 U	0.025 U
Carbon Disulfide	160	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Carbon Tetrachloride	0.33	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Chlorobenzene	6.5	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Chloroethane +	70	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
Chloroform	2.9	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Chloromethane +	0.68	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Dibromochloromethane	0.4	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1-Dichloroethane	110	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,2-Dichloroethane	0.1	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1-Dichloroethene	0.3	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
cis-1,2-Dichloroethene	1.1	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
trans-1,2-Dichloroethene	3.4	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,2-Dichloropropane	0.15	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
cis-1,3-Dichloropropene	0.02	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
trans-1,3-Dichloropropene	0.02	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Ethylbenzene	19	0.017 U	0.012 U	0.012 U	0.012 U	0.15
2-Hexanone +	1.3	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
4-Methyl-2-Pentanone	--	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
Methylene Chloride	0.2	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
Methyl tert-butyl ether	0.32	NA	NA	NA	NA	NA
Styrene	18	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1,2,2-Tetrachloroethane +	3.3	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Tetrachloroethene	0.3	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Toluene	29	0.017 U	0.012 U	0.012 U	0.012 U	0.041
1,1,1-Trichloroethane	9.6	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
1,1,2-Trichloroethane	0.3	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Trichloroethene	0.3	0.017 U	0.012 U	0.012 U	0.012 U	0.013 U
Vinyl Chloride	0.07	0.034 U	0.025 U	0.024 U	0.023 U	0.025 U
m,p-Xylene*	150	0.017 U	0.012 U	0.012 U	0.012 U	0.11
o-Xylene*	150	0.017 U	0.012 U	0.012 U	0.012 U	0.12
Xylenes, Total	150	NA	NA	NA	NA	NA

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(6) NA - Not analyzed.

(7) * The "total xylenes" screening level was used because it is more conservative.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP03-002 4-5	SB04-001 5-7	SP05-001 2-3	SP05-002 9-10	SP06-001 2-3
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Bis(2-chloroethyl)ether**	0.0004	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Bis(2-ethylhexyl)phthalate	31,000	0.44 U	1.1	0.38 U	0.39 U	0.38 U
4-Bromophenyl phenyl ether	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Butyl benzyl phthalate	930	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Carbazole	2.8	0.44 U	0.41 U	0.67	0.39 U	2.2
4-Chloro-3-methylphenol +	120	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4-Chloroaniline	0.7	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Chloronaphthalene	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Chlorophenol	1.5	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4-Chlorophenyl phenyl ether	--	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Dibenzofuran +	76	0.44 U	0.41 U	0.38 U	0.39 U	0.4
1,2-Dichlorobenzene	43	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
1,3-Dichlorobenzene +	1.0	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
1,4-Dichlorobenzene	11	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
3,3´-Dichlorobenzidine**	0.033	0.89 U	0.82 U	0.76 U	0.78 U	0.76 U
2,4-Dichlorophenol	0.48	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Diethyl phthalate	470	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Dimethyl phthalate +	380	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Di-n-butyl phthalate	2,300	0.44 U	0.45	0.38 U	0.39 U	0.38 U
2,4-Dimethylphenol	9	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4,6-Dinitro-2-methylphenol	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
2,4-Dinitrophenol**	0.2	2.1 U	2 U	1.8 U	1.9 U	1.8 U
2,4-Dinitrotoluene**	0.0008	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2,6-Dinitrotoluene**	0.0007	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Di-n-octyl phthalate	10,000	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachlorobenzene	11	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachlorobutadiene +	15	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachlorocyclopentadiene	2,200	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Hexachloroethane	2.6	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
Isophorone	8	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Methylnaphthalene +	39	0.44 U	0.41 U	0.54	0.39 U	2.7
2-Methylphenol	15	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
4-Methylphenol ++	0.66	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Nitroaniline	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
3-Nitroaniline	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
4-Nitroaniline	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
Nitrobenzene**	0.1	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2-Nitrophenol	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
4-Nitrophenol	--	2.1 U	2 U	1.8 U	1.9 U	1.8 U
N-Nitrosodi-n-propylamine**	0.00005	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
N-Nitrosodiphenylamine	5.6	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	--	0.019 U	0.017 U	0.016 U	0.017 U	0.016 U
Pentachlorophenol**	0.10	2.1 U	2 U	1.8 U	1.9 U	1.8 U
Phenol	100	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
1,2,4-Trichlorobenzene	53	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U
2,4,5-Trichlorophenol	26	0.89 U	0.82 U	0.76 U	0.78 U	0.76 U
2,4,6-Trichlorophenol **	0.07	0.44 U	0.41 U	0.38 U	0.39 U	0.38 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) **Values exceeded TACO screening level but were consistently non-detect so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP03-002 4-5	SB04-001 5-7	SP05-001 2-3	SP05-002 9-10	SP06-001 2-3
PAHs (mg/kg)						
Acenaphthene	2,900	0.034 U	0.17	0.84	0.03 U	1.4
Acenaphthylene +	120	0.034 U	0.13	1.3	0.03 U	0.59
Anthracene	59,000	0.034 U	0.7	1.1	0.03 U	1.7
Benzo(a)anthracene	8	0.034 U	0.78	3	0.03 U	3.3
Benzo(b)fluoranthene	25	0.034 U	1.1	1.9	0.03 U	2
Benzo(k)fluoranthene	250	0.034 U	0.91	2.5	0.03 U	2.4
Benzo(g,h,i)perylene +	160,000	0.034 U	1.2	1.2	0.03 U	1.4
Benzo(a)pyrene	82	0.034 U	0.75	3.3	0.03 U	3.3
Chrysene	800	0.034 U	1.7	3.5	0.03 U	4.2
Dibenzo(a,h)anthracene	7.6	0.034 U	0.41	0.55	0.03 U	0.71
Fluoranthene	21,000	0.034 U	2.4	4.3	0.03 U	7.2
Fluorene	2,800	0.034 U	0.31	0.77	0.03 U	1.5
Indeno(1,2,3-cd)pyrene	69	0.034 U	0.74	1.3	0.03 U	1.6
Naphthalene	18	0.034 U	0.15	0.22	0.03 U	4.2
Phenanthrene +	1,100	0.034 U	1.5	2.9	0.03 U	7
Pyrene	21,000	0.034 U	3.4	6.6	0.03 U	6.1
PCBs (mg/kg)						
Aroclor 1016	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1221	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1232	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1242	--	0.1 U	5.8	0.092 U	0.095 U	0.29
Aroclor 1248	--	0.1 U	0.096 U	0.092 U	0.095 U	0.092 U
Aroclor 1254	--	0.2 U	3.4	0.19 U	0.19 U	0.29
Aroclor 1260	--	0.2 U	0.19 U	0.19 U	0.19 U	0.18 U
Total PCBs	--	0.900 U	9.774	0.840 U	0.855 U	1.128
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	1.2 UJ	1.4 J	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic*	120	3.6 J	8.1 J	9	5.8 J	7.3
Barium*	1,800	58 J	260 J	78 J	18 J	160 J
Beryllium*	130,000	1.3	0.72	1.1	0.97	0.95
Cadmium*	590	0.6 U	3	1.1	0.55 U	1.2
Chromium ***	21	20 J	570 J ++	14 J	15 J	13 J
Copper*	330,000	18 J	220 J	140 J	19 J	35 J
Lead**	--	17	280	160 J	13	450 J
Mercury*	32	0.031 U	0.31	0.32	0.027 U	0.22
Nickel*	14,000	24 J	76 J	20 J	23 J	17 J
Selenium*	1.3	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U
Silver ***	39	1.2 U	1.3	1.1 U	1.1 U	1.1 U
Thallium*	34	1.2	1.2 U	1.1 U	1.5	1.1 U
Zinc*	32,000	63 J	780 J	240 J	37 J	320 J
Total Cyanide*	120	0.31 U	0.33 U	0.27 U	0.31 U	0.25 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) J - Indicates an estimated value.

(8) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.

(9) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.

(10) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.

(11) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(12) ++ SPLP analysis was conducted on sample SB04-001 with a total chromium concentration of 570 mg/kg. The SPLP chromuim result for SB04-001 was non-detect; therefore the result is below the Tier I Class II screening level of 1.0 mg/l.

(13) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP06-002 3-4	SP06-003 8-10	SP07-001 1-2	SP07-002 9-10	SP07-003 16-17
TCL Volatiles (mg/kg)						
Acetone	16	0.16	0.092 U	0.06 U	0.068 U	0.046 U
Benzene	0.17	0.78	0.056	0.012 U	0.014 U	0.0093 U
Bromodichloromethane	0.6	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Bromoform	0.8	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Bromomethane	1.2	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
2-Butanone	--	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Carbon Disulfide	160	0.025 U	0.018 U	0.04	0.014 U	0.0093 U
Carbon Tetrachloride	0.33	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Chlorobenzene	6.5	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Chloroethane +	70	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Chloroform	2.9	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Chloromethane +	0.68	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Dibromochloromethane	0.4	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1-Dichloroethane	110	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,2-Dichloroethane	0.1	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1-Dichloroethene	0.3	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
cis-1,2-Dichloroethene	1.1	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
trans-1,2-Dichloroethene	3.4	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,2-Dichloropropane	0.15	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
cis-1,3-Dichloropropene	0.02	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
trans-1,3-Dichloropropene	0.02	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Ethylbenzene	19	3	0.38	0.013	0.014 U	0.0093 U
2-Hexanone +	1.3	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
4-Methyl-2-Pentanone	--	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Methylene Chloride	0.2	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
Methyl tert-butyl ether	0.32	NA	NA	NA	NA	NA
Styrene	18	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1,2,2-Tetrachloroethane +	3.3	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Tetrachloroethene	0.3	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Toluene	29	0.79	0.044	0.012	0.014 U	0.0093 U
1,1,1-Trichloroethane	9.6	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
1,1,2-Trichloroethane	0.3	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Trichloroethene	0.3	0.025 U	0.018 U	0.012 U	0.014 U	0.0093 U
Vinyl Chloride	0.07	0.05 U	0.037 U	0.024 U	0.027 U	0.019 U
m,p-Xylene*	150	3	0.098	0.016	0.014 U	0.0093 U
o-Xylene*	150	2	0.17	0.012 U	0.014 U	0.0093 U
Xylenes, Total	150	NA	NA	NA	NA	NA

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) Shaded value exceeds Tier 1 screening level.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) -- Toxicity criteria not available for exposure route.

(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(7) NA - Not analyzed.

(8) * The "total xylenes" screening level was used because it is more conservative.

(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP06-002 3-4	SP06-003 8-10	SP07-001 1-2	SP07-002 9-10	SP07-003 16-17
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Bis(2-chloroethyl)ether**	0.0004	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Bromophenyl phenyl ether	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Butyl benzyl phthalate	930	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Carbazole	2.8	0.39 U	1.4	0.47	0.38 U	0.39 U
4-Chloro-3-methylphenol +	120	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Chloroaniline **	0.7	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Chloronaphthalene	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Chlorophenol	1.5	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Dibenzofuran +	76	1.3	1.6	0.37 U	0.38 U	0.39 U
1,2-Dichlorobenzene	43	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
1,3-Dichlorobenzene + **	1.0	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
1,4-Dichlorobenzene	11	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
3,3´-Dichlorobenzidine**	0.033	0.78 U	2.2 U	0.74 U	0.76 U	0.79 U
2,4-Dichlorophenol	0.48	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Diethyl phthalate	470	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Dimethyl phthalate +	380	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Di-n-butyl phthalate	2,300	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2,4-Dimethylphenol	9	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
2,4-Dinitrophenol**	0.2	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
2,4-Dinitrotoluene**	0.0008	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2,6-Dinitrotoluene**	0.0007	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Di-n-octyl phthalate	10,000	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachlorobenzene	11	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachlorobutadiene +	15	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachlorocyclopentadiene	2,200	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Hexachloroethane	2.6	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
Isophorone	8	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Methylnaphthalene +	39	20	17	0.4	0.38 U	0.39 U
2-Methylphenol	15	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
4-Methylphenol ++	0.66	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Nitroaniline	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
3-Nitroaniline	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
4-Nitroaniline	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
Nitrobenzene**	0.1	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2-Nitrophenol	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
4-Nitrophenol	--	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine**	0.00005	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
N-Nitrosodiphenylamine	5.6	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.046 U	0.016 U	0.016 U	0.017 U
Pentachlorophenol**	0.10	1.9 U	5.2 U	1.8 U	1.9 U	1.9 U
Phenol	100	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
1,2,4-Trichlorobenzene	53	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U
2,4,5-Trichlorophenol	26	0.78 U	2.2 U	0.74 U	0.76 U	0.79 U
2,4,6-Trichlorophenol **	0.07	0.39 U	1.1 U	0.37 U	0.38 U	0.39 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) **Values exceeded TACO or non-TACO screening level but were consistently non-detect so no values were shaded.

(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(7) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP06-002 3-4	SP06-003 8-10	SP07-001 1-2	SP07-002 9-10	SP07-003 16-17
PAHs (mg/kg)						
Acenaphthene	2,900	10	4.5	0.28 U	0.029 U	0.03 U
Acenaphthylene +	120	2	4.2	0.39	0.029 U	0.03 U
Anthracene	59,000	9.6	4.9	0.54	0.029 U	0.03 U
Benzo(a)anthracene	8	3.9	4.2	1.5	0.029 U	0.03 U
Benzo(b)fluoranthene	25	1.1	1.3	1.3	0.029 U	0.03 U
Benzo(k)fluoranthene	250	0.89	1.1	0.98	0.029 U	0.03 U
Benzo(g,h,i)perylene +	160,000	1.2	0.82 U	0.77	0.029 U	0.03 U
Benzo(a)pyrene	82	2.7	0.97	1.6	0.029 U	0.03 U
Chrysene	800	5.1	4.3	1.6	0.029 U	0.03 U
Dibenzo(a,h)anthracene	7.6	0.52	0.82 U	0.28 U	0.029 U	0.03 U
Fluoranthene	21,000	9.1	6.8	2.5	0.029 U	0.03 U
Fluorene	2,800	10	6.5	0.28 U	0.029 U	0.03 U
Indeno(1,2,3-cd)pyrene	69	1.2	0.82 U	0.71	0.029 U	0.03 U
Naphthalene	18	27	13	0.28	0.029 U	0.03 U
Phenanthrene +	1,100	34	21	2.1	0.029 U	0.03 U
Pyrene	21,000	15	10	2.8	0.029 U	0.03 U
PCBs (mg/kg)						
Aroclor 1016	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1221	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1232	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1242	--	0.094 U	0.09 U	1.5	0.09 U	0.096 U
Aroclor 1248	--	0.094 U	0.09 U	0.091 U	0.09 U	0.096 U
Aroclor 1254	--	0.19 U	0.18 U	0.91 U	0.18 U	0.19 U
Aroclor 1260	--	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U
Total PCBs	--	0.850 U	0.810 U	2.954	0.810 U	0.860 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	1.1 UJ	NA	1 UJ	1.1 UJ	1.1 UJ
Arsenic*	120	6.5 J	NA	4.4	7.7 J	8.1 J
Barium*	1,800	67 J	NA	370 J	38 J	98 J
Beryllium*	130,000	1	NA	5.7	0.98	1.2
Cadmium*	590	0.98	NA	1.4	0.54 U	0.57 U
Chromium ***	21	12 J	NA	120 J	17 J	21 J
Copper*	330,000	71 J	NA	400 J	28 J	24 J
Lead**	--	190	NA	180 J	55	16
Mercury*	32	0.15	NA	0.091	0.029 U	0.032 U
Nickel*	14,000	17 J	NA	17 J	33 J	31 J
Selenium*	1.3	1.1 U	NA	2.8	1.1 U	1.1 U
Silver ***	39	1.1 U	NA	1 U	1.1 U	1.1 U
Thallium*	34	1.1 U	NA	1 U	1.4	2.1
Zinc*	32,000	190 J	NA	180 J	69 J	39 J
Total Cyanide*	120	0.26 U	NA	0.26 U	0.27 U	0.29 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.
(9) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.
(10) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.
(11) NA - Not analyzed.
(12) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(13) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP08-001 0-0.5	SP08-002 7-8	SB09-001 3-5	SB10-001 1-2	SP10-002 6-7
TCL Volatiles (mg/kg)						
Acetone	16	0.047 U	0.097	0.12	0.062	0.071 U
Benzene	0.17	0.0095 U	0.011 U	0.19	0.0092	3.6
Bromodichloromethane	0.6	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Bromoform	0.8	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Bromomethane	1.2	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
2-Butanone	--	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Carbon Disulfide	160	0.0095 U	0.011 U	0.013	0.0074 U	0.014 U
Carbon Tetrachloride	0.33	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Chlorobenzene	6.5	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Chloroethane +	70	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Chloroform	2.9	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Chloromethane +	0.68	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Dibromochloromethane	0.4	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1-Dichloroethane	110	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,2-Dichloroethane	0.1	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1-Dichloroethene	0.3	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
cis-1,2-Dichloroethene	1.1	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
trans-1,2-Dichloroethene	3.4	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,2-Dichloropropane	0.15	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
cis-1,3-Dichloropropene	0.02	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
trans-1,3-Dichloropropene	0.02	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Ethylbenzene	19	0.0095 U	0.011 U	0.07	0.014	8.2
2-Hexanone +	1.3	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
4-Methyl-2-Pentanone	--	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Methylene Chloride	0.2	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
Methyl tert-butyl ether	0.32	NA	NA	NA	NA	NA
Styrene	18	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1,2,2-Tetrachloroethane +	3.3	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Tetrachloroethene	0.3	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Toluene	29	0.0095 U	0.011 U	0.011 U	0.0087	0.014 U
1,1,1-Trichloroethane	9.6	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
1,1,2-Trichloroethane	0.3	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Trichloroethene	0.3	0.0095 U	0.011 U	0.011 U	0.0074 U	0.014 U
Vinyl Chloride	0.07	0.019 U	0.022 U	0.022 U	0.015 U	0.028 U
m,p-Xylene*	150	0.0095 U	0.011 U	0.013	0.021	5
o-Xylene*	150	0.0095 U	0.011 U	0.087	0.014	1.4
Xylenes, Total	150	NA	NA	NA	NA	NA

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) Shaded value exceeds Tier 1 screening level.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) -- Toxicity criteria not available for exposure route.

(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(7) NA - Not analyzed.

(8) * The "total xylenes" screening level was used because it is more conservative.

(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP08-001 0-0.5	SP08-002 7-8	SB09-001 3-5	SB10-001 1-2	SP10-002 6-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Bis(2-chloroethyl)ether**	0.0004	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	2.9	0.4 U	0.75	2.1	0.39 U
4-Bromophenyl phenyl ether	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Butyl benzyl phthalate	930	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Carbazole	2.8	0.41 U	0.4 U	3.7	1.1	0.39 U
4-Chloro-3-methylphenol +	120	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4-Chloroaniline	0.7	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Chloronaphthalene	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Chlorophenol	1.5	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Dibenzofuran +	76	0.41 U	0.4 U	0.65	2	1.2
1,2-Dichlorobenzene	43	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
1,3-Dichlorobenzene +	1.0	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
1,4-Dichlorobenzene	11	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
3,3´-Dichlorobenzidine**	0.033	0.81 U	0.8 U	0.75 U	0.72 U	0.77 U
2,4-Dichlorophenol	0.48	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Diethyl phthalate	470	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Dimethyl phthalate +	380	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Di-n-butyl phthalate	2,300	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2,4-Dimethylphenol	9	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4,6-Dinitro-2-methylphenol	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrophenol**	0.2	2 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene**	0.0008	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2,6-Dinitrotoluene**	0.0007	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Di-n-octyl phthalate	10,000	0.71	0.4 U	0.37 U	0.36 U	0.39 U
Hexachlorobenzene	11	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Hexachlorobutadiene +	15	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Hexachlorocyclopentadiene	2,200	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Hexachloroethane	2.6	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
Isophorone	8	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Methylnaphthalene +	39	0.41 U	0.4 U	0.37 U	27	23
2-Methylphenol	15	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
4-Methylphenol ++	0.66	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Nitroaniline	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
3-Nitroaniline	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
4-Nitroaniline	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
Nitrobenzene**	0.1	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2-Nitrophenol	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
4-Nitrophenol	--	2 U	1.9 U	1.8 U	1.8 U	1.9 U
N-Nitrosodi-n-propylamine**	0.00005	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
N-Nitrosodiphenylamine	5.6	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.017 U	0.016 U	0.015 U	0.016 U
Pentachlorophenol**	0.10	2 U	1.9 U	1.8 U	1.8 U	1.9 U
Phenol	100	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
1,2,4-Trichlorobenzene	53	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U
2,4,5-Trichlorophenol	26	0.81 U	0.8 U	0.75 U	0.72 U	0.77 U
2,4,6-Trichlorophenol **	0.07	0.41 U	0.4 U	0.37 U	0.36 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) Shaded value exceeds Tier 1 screening level.
(6) **Values exceeded TACO screening level but were consistently non-detect so no values were shaded.
(7) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(8) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP08-001 0-0.5	SP08-002 7-8	SB09-001 3-5	SB10-001 1-2	SP10-002 6-7
PAHs (mg/kg)						
Acenaphthene	2,900	0.031 U	0.003 U	0.51	2.4	8.6
Acenaphthylene +	120	0.28	0.0052	0.36	1.9	5.1
Anthracene	59,000	0.4	0.011	2.3	7.1	8.6
Benzo(a)anthracene	8	1.4	0.029	3.3	1.6	1.7
Benzo(b)fluoranthene	25	1.2	0.035	2.3	3.5	2.5
Benzo(k)fluoranthene	250	0.9	0.027	2.3	3.4	1.7
Benzo(g,h,i)perylene +	160,000	0.9	0.015	0.74	3.6	1.6
Benzo(a)pyrene	82	1.7	0.031	1.6	3.9	2.2
Chrysene	800	1.5	0.035	3.8	9	11
Dibenzo(a,h)anthracene	7.6	0.33	0.006	0.31	1.2	0.59
Fluoranthene	21,000	1.7	0.043	5.3	11	6.8
Fluorene	2,800	0.078	0.0052	0.92	6.9	6.7
Indeno(1,2,3-cd)pyrene	69	0.83	0.014	0.69	2.6	1.1
Naphthalene	18	0.041	0.004	0.52	10	18
Phenanthrene +	1,100	1	0.032	5.2	24	26
Pyrene	21,000	2.1	0.056	5.1	14	14
PCBs (mg/kg)						
Aroclor 1016	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1221	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1232	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1242	--	0.37	0.098 U	0.39	3.9	0.094 U
Aroclor 1248	--	0.099 U	0.098 U	0.088 U	0.09 U	0.094 U
Aroclor 1254	--	0.28	0.2 U	0.41	3.3	0.19 U
Aroclor 1260	--	0.2 U	0.2 U	0.18 U	0.18 U	0.19 U
Total PCBs	--	1.246	0.890 U	1.332	7.740	0.850 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	1.2 UJ	1.1 UJ	1 UJ	1.1 J	1.1 UJ
Arsenic*	120	7.2	2.8 J	7.8 J	7.2	13 J
Barium*	1,800	76 J	31 J	140 J	140 J	80 J
Beryllium*	130,000	1.1	1.1	0.6	0.84	1.1
Cadmium*	590	0.75	0.54 U	1.1	1.9	0.55 U
Chromium ***	21	15 J	18 J	98 J	26 J	18 J
Copper*	330,000	50 J	22 J	68 J	120 J	32 J
Lead**	--	200 J	18	340	260 J	25
Mercury*	32	1.4	0.033	0.21	0.3	0.027 U
Nickel*	14,000	19 J	24 J	38 J	25 J	35 J
Selenium*	1.3	1.2 U	1.1 U	1 U	0.9 U	1.1 U
Silver ***	39	1.2 U	1.1 U	1 U	0.9 U	1.1 U
Thallium*	34	1.2 U	1.5	1 U	1.3	2
Zinc*	32,000	170 J	42 J	240 J	830 J	53 J
Total Cyanide*	120	0.33 U	0.3 U	0.29 U	0.36	0.31 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) J - Indicates an estimated value.

(8) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.

(9) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.

(10) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.

(11) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(12) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP10-003 13-14	SP11-001 0-0.5	SP11-002 9-10	SP13-001 1-2	SP13-002 6-7
TCL Volatiles (mg/kg)						
Acetone	16	0.053 U	0.057 U	0.078	0.062	0.12
Benzene	0.17	0.92	0.011 U	0.013 U	0.012 U	0.012 U
Bromodichloromethane	0.6	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Bromoform	0.8	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Bromomethane	1.2	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
2-Butanone	--	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Carbon Disulfide	160	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Carbon Tetrachloride	0.33	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Chlorobenzene	6.5	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Chloroethane +	70	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Chloroform	2.9	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Chloromethane +	0.68	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Dibromochloromethane	0.4	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1-Dichloroethane	110	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,2-Dichloroethane	0.1	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1-Dichloroethene	0.3	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
cis-1,2-Dichloroethene	1.1	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
trans-1,2-Dichloroethene	3.4	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,2-Dichloropropane	0.15	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
cis-1,3-Dichloropropene	0.02	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
trans-1,3-Dichloropropene	0.02	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Ethylbenzene	19	9	0.011 U	0.013 U	0.012 U	0.012 U
2-Hexanone +	1.3	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
4-Methyl-2-Pentanone	--	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Methylene Chloride	0.2	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
Methyl tert-butyl ether	0.32	NA	NA	NA	NA	NA
Styrene	18	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1,2,2-Tetrachloroethane +	3.3	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Tetrachloroethene	0.3	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Toluene	29	0.6	0.011 U	0.013 U	0.012 U	0.012 U
1,1,1-Trichloroethane	9.6	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
1,1,2-Trichloroethane	0.3	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Trichloroethene	0.3	0.011 U	0.011 U	0.013 U	0.012 U	0.012 U
Vinyl Chloride	0.07	0.021 U	0.023 U	0.026 U	0.025 U	0.023 U
m,p-Xylene*	150	3.8	0.011 U	0.013 U	0.012 U	0.012 U
o-Xylene*	150	12	0.011 U	0.013 U	0.012 U	0.012 U
Xylenes, Total	150	NA	NA	NA	NA	NA

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) Shaded value exceeds Tier 1 screening level.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) -- Toxicity criteria not available for exposure route.

(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(7) NA - Not analyzed.

(8) * The "total xylenes" screening level was used because it is more conservative.

(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP10-003 13-14	SP11-001 0-0.5	SP11-002 9-10	SP13-001 1-2	SP13-002 6-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Bis(2-chloroethyl)ether**	0.0004	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Bis(2-ethylhexyl)phthalate	31,000	0.38 U	1.1	0.38 U	0.36 U	0.4 U
4-Bromophenyl phenyl ether	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Butyl benzyl phthalate	930	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Carbazole	2.8	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Chloro-3-methylphenol +	120	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Chloroaniline	0.7	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Chloronaphthalene	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Chlorophenol	1.5	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Chlorophenyl phenyl ether	--	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Dibenzofuran +	76	0.75	0.38 U	0.38 U	0.36 U	0.4 U
1,2-Dichlorobenzene	43	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
1,3-Dichlorobenzene +	1.0	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
1,4-Dichlorobenzene	11	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
3,3´-Dichlorobenzidine**	0.033	0.77 U	0.76 U	0.77 U	0.73 U	0.8 U
2,4-Dichlorophenol	0.48	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Diethyl phthalate	470	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Dimethyl phthalate +	380	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Di-n-butyl phthalate	2,300	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2,4-Dimethylphenol	9	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrophenol**	0.2	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrotoluene**	0.0008	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2,6-Dinitrotoluene**	0.0007	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Di-n-octyl phthalate	10,000	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachlorobenzene	11	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachlorobutadiene +	15	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachlorocyclopentadiene	2,200	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Hexachloroethane	2.6	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
Isophorone	8	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Methylnaphthalene +	39	20	1.1	0.42	0.86	0.53
2-Methylphenol	15	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
4-Methylphenol ++	0.66	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Nitroaniline	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
3-Nitroaniline	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
4-Nitroaniline	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
Nitrobenzene**	0.1	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2-Nitrophenol	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
4-Nitrophenol	--	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
N-Nitrosodi-n-propylamine**	0.00005	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
N-Nitrosodiphenylamine	5.6	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.016 U	0.015 U	0.017 U
Pentachlorophenol**	0.10	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
Phenol	100	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
1,2,4-Trichlorobenzene	53	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U
2,4,5-Trichlorophenol	26	0.77 U	0.76 U	0.77 U	0.73 U	0.8 U
2,4,6-Trichlorophenol **	0.07	0.38 U	0.38 U	0.38 U	0.36 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) **Values exceeded TACO screening level but were consistently non-detect so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP10-003 13-14	SP11-001 0-0.5	SP11-002 9-10	SP13-001 1-2	SP13-002 6-7
PAHs (mg/kg)						
Acenaphthene	2,900	5.5	1.1	0.046	0.16	0.056
Acenaphthylene +	120	3.7	0.86	0.029 U	0.069	0.03 U
Anthracene	59,000	3.1	2.5	0.029 U	0.13	0.03 U
Benzo(a)anthracene	8	0.37	0.9	0.029 U	0.037	0.03 U
Benzo(b)fluoranthene	25	0.42	1.7	0.029 U	0.13	0.03 U
Benzo(k)fluoranthene	250	0.49	1.6	0.029 U	0.11	0.03 U
Benzo(g,h,i)perylene +	160,000	0.51	0.62	0.029 U	0.2	0.03 U
Benzo(a)pyrene	82	0.45	1.8	0.029 U	0.094	0.03 U
Chrysene	800	2.2	3.1	0.032	0.26	0.03 U
Dibenzo(a,h)anthracene	7.6	0.13	0.3	0.029 U	0.084	0.03 U
Fluoranthene	21,000	1.8	3.7	0.037	0.21	0.03 U
Fluorene	2,800	3.8	1.3	0.029 U	0.15	0.03 U
Indeno(1,2,3-cd)pyrene	69	0.26	0.44	0.029 U	0.14	0.03 U
Naphthalene	18	27	1.5	0.73	0.83	0.99
Phenanthrene +	1,100	9.3	6.5	0.092	0.34	0.04
Pyrene	21,000	3	7.8	0.063	0.28	0.03 U
PCBs (mg/kg)						
Aroclor 1016	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1221	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1232	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1242	--	0.09 U	0.49	0.094 U	0.98	0.097 U
Aroclor 1248	--	0.09 U	0.092 U	0.094 U	0.09 U	0.097 U
Aroclor 1254	--	0.18 U	0.45	0.19 U	0.9 U	0.19 U
Aroclor 1260	--	0.18 U	0.18 U	0.19 U	0.18 U	0.19 U
Total PCBs	--	0.810 U	1.488	0.850 U	2.420	0.865 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	1.1 UJ	1.1 UJ	1.1 UJ	1 J	1.1 UJ
Arsenic*	120	7.5 J	5.4	11 J	7.3	9.4 J
Barium*	1,800	83 J	120 J	100 J	86 J	86 J
Beryllium*	130,000	1.1	1.1	1.1	0.79	1.2
Cadmium*	590	0.55 U	1.2	0.56 U	0.7	0.57 U
Chromium ***	21	19 J	16 J	20 J	14 J	20 J
Copper*	330,000	31 J	90 J	32 J	40 J	34 J
Lead**	--	18	140 J	19	250 J	20
Mercury*	32	0.028	0.1	0.028 U	2.9	0.03
Nickel*	14,000	39 J	26 J	37 J	19 J	34 J
Selenium*	1.3	1.1 U	1.1 U	1.1 U	1 U	1.1 U
Silver ***	39	1.1 U	1.1 U	1.1 U	1 U	1.1 U
Thallium*	34	2.5	1.5	2	1.5	2
Zinc*	32,000	49 J	220 J	47 J	94 J	45 J
Total Cyanide*	120	0.25 U	0.89	0.27 U	0.26 U	0.3 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.
(9) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.
(10) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.
(11) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(12) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-003 15-16	SB14-001 1-2	SB14-002 6-8	SB15-001 0-0.5	SB15-002 6-8
TCL Volatiles (mg/kg)						
Acetone	16	0.055 U	0.051 U	0.078	0.037 U	0.051 U
Benzene	0.17	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Bromodichloromethane	0.6	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Bromoform	0.8	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Bromomethane	1.2	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
2-Butanone	--	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Carbon Disulfide	160	0.011 U	0.01 U	0.015 U	0.0074 U	0.018
Carbon Tetrachloride	0.33	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Chlorobenzene	6.5	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Chloroethane +	70	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Chloroform	2.9	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Chloromethane +	0.68	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Dibromochloromethane	0.4	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1-Dichloroethane	110	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,2-Dichloroethane	0.1	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1-Dichloroethene	0.3	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
cis-1,2-Dichloroethene	1.1	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
trans-1,2-Dichloroethene	3.4	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,2-Dichloropropane	0.15	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
cis-1,3-Dichloropropene	0.02	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
trans-1,3-Dichloropropene	0.02	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Ethylbenzene	19	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
2-Hexanone +	1.3	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
4-Methyl-2-Pentanone	--	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Methylene Chloride	0.2	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
Methyl tert-butyl ether	0.32	NA	NA	NA	NA	NA
Styrene	18	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1,2,2-Tetrachloroethane +	3.3	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Tetrachloroethene	0.3	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Toluene	29	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1,1-Trichloroethane	9.6	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
1,1,2-Trichloroethane	0.3	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Trichloroethene	0.3	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Vinyl Chloride	0.07	0.022 U	0.02 U	0.03 U	0.015 U	0.021 U
m,p-Xylene*	150	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
o-Xylene*	150	0.011 U	0.01 U	0.015 U	0.0074 U	0.01 U
Xylenes, Total	150	NA	NA	NA	NA	NA

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(6) NA - Not analyzed.

(7) * The "total xylenes" screening level was used because it is more conservative.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-003 15-16	SB14-001 1-2	SB14-002 6-8	SB15-001 0-0.5	SB15-002 6-8
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Bis(2-chloroethyl)ether**	0.0004	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	0.49	0.42 U	0.58	0.39 U
4-Bromophenyl phenyl ether	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Butyl benzyl phthalate	930	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Carbazole	2.8	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Chloro-3-methylphenol +	120	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Chloroaniline	0.7	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Chloronaphthalene	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Chlorophenol	1.5	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Dibenzofuran +	76	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,2-Dichlorobenzene	43	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,3-Dichlorobenzene +	1.0	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,4-Dichlorobenzene	11	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
3,3´-Dichlorobenzidine**	0.033	0.78 U	0.71 U	0.84 U	0.81 U	0.78 U
2,4-Dichlorophenol	0.48	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Diethyl phthalate	470	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Dimethyl phthalate +	380	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Di-n-butyl phthalate	2,300	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2,4-Dimethylphenol	9	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.7 U	2 U	2 U	1.9 U
2,4-Dinitrophenol**	0.2	1.9 U	1.7 U	2 U	2 U	1.9 U
2,4-Dinitrotoluene**	0.0008	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2,6-Dinitrotoluene**	0.0007	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Di-n-octyl phthalate	10,000	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachlorobenzene	11	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachlorobutadiene +	15	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachlorocyclopentadiene	2,200	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Hexachloroethane	2.6	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
Isophorone	8	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Methylnaphthalene +	39	0.79	0.35 U	0.42 U	0.4 U	0.39 U
2-Methylphenol	15	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
4-Methylphenol ++	0.66	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Nitroaniline	--	1.9 U	1.7 U	2 U	2 U	1.9 U
3-Nitroaniline	--	1.9 U	1.7 U	2 U	2 U	1.9 U
4-Nitroaniline	--	1.9 U	1.7 U	2 U	2 U	1.9 U
Nitrobenzene**	0.1	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2-Nitrophenol	--	1.9 U	1.7 U	2 U	2 U	1.9 U
4-Nitrophenol	--	1.9 U	1.7 U	2 U	2 U	1.9 U
N-Nitrosodi-n-propylamine**	0.00005	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
N-Nitrosodiphenylamine	5.6	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.015 U	0.018 U	0.017 U	0.017 U
Pentachlorophenol**	0.10	1.9 U	1.7 U	2 U	2 U	1.9 U
Phenol	100	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
1,2,4-Trichlorobenzene	53	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U
2,4,5-Trichlorophenol	26	0.78 U	0.71 U	0.84 U	0.81 U	0.78 U
2,4,6-Trichlorophenol **	0.07	0.39 U	0.35 U	0.42 U	0.4 U	0.39 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) **Values exceeded TACO screening level but were consistently non-detect so no values were shaded.

(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(7) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-003 15-16	SB14-001 1-2	SB14-002 6-8	SB15-001 0-0.5	SB15-002 6-8
PAHs (mg/kg)						
Acenaphthene	2,900	0.077	0.15	0.032 U	0.031 U	0.03 U
Acenaphthylene +	120	0.03 U	0.18	0.032 U	0.13	0.03 U
Anthracene	59,000	0.03 U	0.25	0.032 U	0.031 U	0.03 U
Benzo(a)anthracene	8	0.03 U	3.5	0.032 U	0.15	0.03 U
Benzo(b)fluoranthene	25	0.03 U	1.8	0.032 U	0.13	0.03 U
Benzo(k)fluoranthene	250	0.03 U	1.6	0.032 U	0.13	0.03 U
Benzo(g,h,i)perylene +	160,000	0.03 U	0.66	0.032 U	0.17	0.03 U
Benzo(a)pyrene	82	0.03 U	3	0.032 U	0.2	0.03 U
Chrysene	800	0.03 U	3.2	0.032 U	0.21	0.03 U
Dibenzo(a,h)anthracene	7.6	0.03 U	0.35	0.032 U	0.057	0.03 U
Fluoranthene	21,000	0.03 U	4.2	0.035	0.24	0.087
Fluorene	2,800	0.036	0.15	0.032 U	0.031 U	0.03 U
Indeno(1,2,3-cd)pyrene	69	0.03 U	0.67	0.032 U	0.14	0.03 U
Naphthalene	18	1.1	0.19	0.11	0.031 U	0.051
Phenanthrene +	1,100	0.063	0.3	0.071	0.17	0.083
Pyrene	21,000	0.03 U	11	0.056	0.33	0.13
PCBs (mg/kg)						
Aroclor 1016	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1221	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1232	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1242	--	0.093 U	0.12	0.1 U	0.22	0.096 U
Aroclor 1248	--	0.093 U	0.085 U	0.1 U	0.096 U	0.096 U
Aroclor 1254	--	0.19 U	0.17 U	0.2 U	0.2 U	0.19 U
Aroclor 1260	--	0.19 U	0.17 U	0.2 U	0.2 U	0.19 U
Total PCBs	--	0.845 U	0.800	0.900 U	1.004	0.860 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	1 UJ	0.98 UJ	1.1 UJ	1 UJ	1.1 UJ
Arsenic*	120	9.6 J	3.3	15 J	9.3	12 J
Barium*	1,800	74 J	32 J	31 J	150 J	26 J
Beryllium*	130,000	1	0.61	1.2	0.99	1.1
Cadmium*	590	0.66	0.59	0.57 U	2.2	0.57 U
Chromium ***	21	17 J	12 J	19 J	33 J	16 J
Copper*	330,000	34 J	18 J	32 J	120 J	18 J
Lead**	--	19	85 J	26	340 J	13
Mercury*	32	0.061	0.06	0.031 U	0.23	0.027
Nickel*	14,000	30 J	10 J	43 J	31 J	27 J
Selenium*	1.3	1 U	0.98 U	1.1 U	1 U	1.1 U
Silver ***	39	1 U	0.98 U	1.1 U	1 U	1.1 U
Thallium*	34	1.9	0.98 U	1.2	1	1.1
Zinc*	32,000	42 J	91 J	47 J	550 J	36 J
Total Cyanide*	120	0.26 U	0.28 U	0.32 U	0.32 U	0.27 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) J - Indicates an estimated value.

(8) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.

(9) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.

(10) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.

(11) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(12) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB15-003 10-12	SP16-001 2-3	SP16-002 9-10	SP16-003 15-16	SB17-001 1-2
TCL Volatiles (mg/kg)						
Acetone	16	0.1	0.053 U	0.1	0.062 U	0.06 U
Benzene	0.17	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Bromodichloromethane	0.6	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Bromoform	0.8	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Bromomethane	1.2	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
2-Butanone	--	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Carbon Disulfide	160	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Carbon Tetrachloride	0.33	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Chlorobenzene	6.5	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Chloroethane +	70	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Chloroform	2.9	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Chloromethane +	0.68	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Dibromochloromethane	0.4	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1-Dichloroethane	110	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,2-Dichloroethane	0.1	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1-Dichloroethene	0.3	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
cis-1,2-Dichloroethene	1.1	0.011 U	0.053	0.0098 U	0.012 U	0.012 U
trans-1,2-Dichloroethene	3.4	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,2-Dichloropropane	0.15	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
cis-1,3-Dichloropropene	0.02	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
trans-1,3-Dichloropropene	0.02	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Ethylbenzene	19	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
2-Hexanone +	1.3	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
4-Methyl-2-Pentanone	--	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Methylene Chloride	0.2	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
Methyl tert-butyl ether	0.32	NA	NA	NA	NA	NA
Styrene	18	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1,2,2-Tetrachloroethane +	3.3	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Tetrachloroethene	0.3	0.011 U	0.1	0.0098 U	0.012 U	0.012 U
Toluene	29	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1,1-Trichloroethane	9.6	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
1,1,2-Trichloroethane	0.3	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Trichloroethene	0.3	0.011 U	0.017	0.0098 U	0.012 U	0.012 U
Vinyl Chloride	0.07	0.022 U	0.021 U	0.02 U	0.025 U	0.024 U
m,p-Xylene*	150	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
o-Xylene*	150	0.011 U	0.011 U	0.0098 U	0.012 U	0.012 U
Xylenes, Total	150	NA	NA	NA	NA	NA

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(6) NA - Not analyzed.

(7) * The "total xylenes" screening level was used because it is more conservative.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB15-003 10-12	SP16-001 2-3	SP16-002 9-10	SP16-003 15-16	SB17-001 1-2
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Bis(2-chloroethyl)ether**	0.0004	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Bis(2-ethylhexyl)phthalate	31,000	0.42 U	1.6	0.39 U	0.39 U	0.94
4-Bromophenyl phenyl ether	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Butyl benzyl phthalate	930	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Carbazole	2.8	0.42 U	0.75	0.39 U	0.39 U	0.36 U
4-Chloro-3-methylphenol +	120	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4-Chloroaniline	0.7	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Chloronaphthalene	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Chlorophenol	1.5	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Dibenzofuran +	76	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,2-Dichlorobenzene	43	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,3-Dichlorobenzene +	1.0	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,4-Dichlorobenzene	11	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
3,3´-Dichlorobenzidine**	0.033	0.85 U	0.73 U	0.77 U	0.77 U	0.73 U
2,4-Dichlorophenol	0.48	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Diethyl phthalate	470	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Dimethyl phthalate +	380	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Di-n-butyl phthalate	2,300	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2,4-Dimethylphenol	9	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4,6-Dinitro-2-methylphenol	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
2,4-Dinitrophenol**	0.2	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
2,4-Dinitrotoluene**	0.0008	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2,6-Dinitrotoluene**	0.0007	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Di-n-octyl phthalate	10,000	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachlorobenzene	11	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachlorobutadiene +	15	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachlorocyclopentadiene	2,200	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Hexachloroethane	2.6	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
Isophorone	8	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Methylnaphthalene +	39	0.42 U	0.64	0.39 U	0.39 U	0.36 U
2-Methylphenol	15	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
4-Methylphenol ++	0.66	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Nitroaniline	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
3-Nitroaniline	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
4-Nitroaniline	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
Nitrobenzene**	0.1	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2-Nitrophenol	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
4-Nitrophenol	--	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
N-Nitrosodi-n-propylamine**	0.00005	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
N-Nitrosodiphenylamine	5.6	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2, 2'-Oxybis(1-Chloropropane)	--	0.018 U	0.015 U	0.016 U	0.016 U	0.015 U
Pentachlorophenol**	0.10	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U
Phenol	100	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
1,2,4-Trichlorobenzene	53	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U
2,4,5-Trichlorophenol	26	0.85 U	0.73 U	0.77 U	0.77 U	0.73 U
2,4,6-Trichlorophenol **	0.07	0.42 U	0.36 U	0.39 U	0.39 U	0.36 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) **Values exceeded TACO screening level but were consistently non-detect so no values were shaded.

(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(7) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB15-003 10-12	SP16-001 2-3	SP16-002 9-10	SP16-003 15-16	SB17-001 1-2
PAHs (mg/kg)						
Acenaphthene	2,900	0.032 U	0.5	0.029 U	0.029 U	0.036
Acenaphthylene +	120	0.032 U	0.15	0.029 U	0.029 U	0.049
Anthracene	59,000	0.032 U	0.81	0.029 U	0.029 U	0.21
Benzo(a)anthracene	8	0.032 U	0.36	0.029 U	0.029 U	0.089
Benzo(b)fluoranthene	25	0.032 U	0.92	0.029 U	0.029 U	0.15
Benzo(k)fluoranthene	250	0.032 U	1.1	0.029 U	0.029 U	0.12
Benzo(g,h,i)perylene +	160,000	0.032 U	0.81	0.029 U	0.029 U	0.034
Benzo(a)pyrene	82	0.032 U	0.75	0.029 U	0.029 U	0.069
Chrysene	800	0.032 U	2.3	0.029 U	0.029 U	0.087
Dibenzo(a,h)anthracene	7.6	0.032 U	0.28	0.029 U	0.029 U	0.028 U
Fluoranthene	21,000	0.032 U	1.8	0.029 U	0.029 U	0.12
Fluorene	2,800	0.032 U	0.44	0.029 U	0.029 U	0.046
Indeno(1,2,3-cd)pyrene	69	0.032 U	0.54	0.029 U	0.029 U	0.034
Naphthalene	18	0.032 U	0.64	0.029 U	0.029 U	0.051
Phenanthrene +	1,100	0.032 U	2.2	0.029 U	0.029 U	0.21
Pyrene	21,000	0.032 U	2.7	0.029 U	0.029 U	0.18
PCBs (mg/kg)						
Aroclor 1016	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1221	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1232	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1242	--	0.1 U	4.7	0.094 U	0.095 U	0.15
Aroclor 1248	--	0.1 U	0.088 U	0.094 U	0.095 U	0.088 U
Aroclor 1254	--	0.21 U	4.3	0.19 U	0.19 U	0.18 U
Aroclor 1260	--	0.21 U	0.18 U	0.19 U	0.19 U	0.18 U
Total PCBs	--	0.920 U	9.532	0.850 U	0.855 U	0.862
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	1.1 UJ	1.1 J	1 UJ	1.1 UJ	1 UJ
Arsenic*	120	5 J	6.7	12 J	9.6 J	1.4
Barium*	1,800	22 J	130 J	79 J	84 J	9.4 J
Beryllium*	130,000	1.2	1.3	1.1	1.1	0.54
Cadmium*	590	0.57 U	2.3	0.52 U	0.56 U	0.5 U
Chromium ***	21	19 J	47 J	17 J	17 J	5.3 J
Copper*	330,000	31 J	170 J	39 J	28 J	4.9 J
Lead**	--	16	150 J	21	17	7.3 J
Mercury*	32	0.032 U	0.43	0.027 U	0.033	0.04
Nickel*	14,000	30 J	40 J	37 J	24 J	3.3 J
Selenium*	1.3	1.1 U	1 U	1 U	1.1 U	1 U
Silver ***	39	1.1 U	1 U	1 U	1.1 U	1 U
Thallium*	34	2.5	1.4	1.8	1.7	1 U
Zinc*	32,000	42 J	600 J	40 J	33 J	55 J
Total Cyanide*	120	0.28 U	0.26 U	0.25 U	0.28 U	0.28 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) J - Indicates an estimated value.

(8) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.

(9) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.

(10) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.

(11) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(12) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB18B-001 1-2	SB19-001 1-2	SB20-001 0-0.5	SB21-001 1-2	SB22-002 8-10
TCL Volatiles (mg/kg)						
Acetone	16	0.062 U	0.05	0.12	0.036	0.065
Benzene	0.17	0.012 U	0.039	0.0084 U	0.077	0.0089 U
Bromodichloromethane	0.6	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Bromoform	0.8	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Bromomethane	1.2	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
2-Butanone	--	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Carbon Disulfide	160	0.012 U	0.0081 U	0.011	0.0065 U	0.0089 U
Carbon Tetrachloride	0.33	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Chlorobenzene	6.5	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Chloroethane +	70	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Chloroform	2.9	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Chloromethane +	0.68	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Dibromochloromethane	0.4	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1-Dichloroethane	110	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,2-Dichloroethane	0.1	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1-Dichloroethene	0.3	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
cis-1,2-Dichloroethene	1.1	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
trans-1,2-Dichloroethene	3.4	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,2-Dichloropropane	0.15	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
cis-1,3-Dichloropropene	0.02	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
trans-1,3-Dichloropropene	0.02	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Ethylbenzene	19	0.012 U	0.22	0.014	0.12	0.0089 U
2-Hexanone +	1.3	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
4-Methyl-2-Pentanone	--	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Methylene Chloride	0.2	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
Methyl tert-butyl ether	0.32	NA	NA	NA	NA	NA
Styrene	18	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1,2,2-Tetrachloroethane +	3.3	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Tetrachloroethene	0.3	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Toluene	29	0.012 U	0.064	0.0097	0.018	0.0089 U
1,1,1-Trichloroethane	9.6	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
1,1,2-Trichloroethane	0.3	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Trichloroethene	0.3	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0089 U
Vinyl Chloride	0.07	0.025 U	0.016 U	0.017 U	0.013 U	0.018 U
m,p-Xylene*	150	0.012 U	0.2	0.031	0.034	0.0089 U
o-Xylene*	150	0.012 U	0.12	0.011	0.036	0.0089 U
Xylenes, Total	150	NA	NA	NA	NA	NA

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(6) NA - Not analyzed.

(7) * The "total xylenes" screening level was used because it is more conservative.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB18B-001 1-2	SB19-001 1-2	SB20-001 0-0.5	SB21-001 1-2	SB22-002 8-10
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Bis(2-chloroethyl)ether**	0.0004	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	1.2	0.63	2.7	0.59 J	0.39 U
4-Bromophenyl phenyl ether	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Butyl benzyl phthalate	930	0.35 U	0.36 U	0.58	0.38 U	0.39 U
Carbazole	2.8	0.35 U	3.2	0.53	0.91 J	0.39 U
4-Chloro-3-methylphenol +	120	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4-Chloroaniline	0.7	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Chloronaphthalene	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Chlorophenol	1.5	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Dibenzofuran +	76	0.35 U	0.94	0.38 U	0.9 J	0.39 U
1,2-Dichlorobenzene	43	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
1,3-Dichlorobenzene +	1.0	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
1,4-Dichlorobenzene	11	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
3,3´-Dichlorobenzidine**	0.033	0.7 U	0.72 U	0.75 U	0.75 U	0.78 U
2,4-Dichlorophenol	0.48	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Diethyl phthalate	470	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Dimethyl phthalate +	380	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Di-n-butyl phthalate	2,300	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2,4-Dimethylphenol	9	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrophenol**	0.2	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene**	0.0008	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2,6-Dinitrotoluene**	0.0007	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Di-n-octyl phthalate	10,000	1.6	0.36 U	0.38 U	0.38 U	0.39 U
Hexachlorobenzene	11	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Hexachlorobutadiene +	15	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Hexachlorocyclopentadiene	2,200	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Hexachloroethane	2.6	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
Isophorone	8	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Methylnaphthalene +	39	0.47	20	0.59	2.3 J	0.39 U
2-Methylphenol	15	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
4-Methylphenol ++	0.66	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Nitroaniline	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
3-Nitroaniline	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
4-Nitroaniline	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
Nitrobenzene**	0.1	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2-Nitrophenol	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
4-Nitrophenol	--	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
N-Nitrosodi-n-propylamine**	0.00005	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
N-Nitrosodiphenylamine	5.6	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.015 U	0.015 U	0.016 U	0.38 U	0.39 U
Pentachlorophenol**	0.10	1.7 U	1.7 U	1.8 U	1.8 U	1.9 U
Phenol	100	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
1,2,4-Trichlorobenzene	53	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U
2,4,5-Trichlorophenol	26	0.7 U	0.72 U	0.75 U	0.75 U	0.78 U
2,4,6-Trichlorophenol **	0.07	0.35 U	0.36 U	0.38 U	0.38 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) Shaded value exceeds Tier 1 screening level.
(6) J - Indicates an estimated value.
(7) **Values exceeded TACO screening level but were consistently non-detect so no values were shaded.
(8) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(9) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).
(10) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB18B-001 1-2	SB19-001 1-2	SB20-001 0-0.5	SB21-001 1-2	SB22-002 8-10
PAHs (mg/kg)						
Acenaphthene	2,900	0.19	3.1	0.31	3.3 J	0.031
Acenaphthylene +	120	0.12	2.3	0.19	2.5 J	0.029 U
Anthracene	59,000	0.67	3.1	0.78	5 J	0.047
Benzo(a)anthracene	8	0.31	1.4	0.26	1.6 J	0.029 U
Benzo(b)fluoranthene	25	0.57	3.4	2	3.1 J	0.029 U
Benzo(k)fluoranthene	250	0.6	3	1.9	3.5 J	0.029 U
Benzo(g,h,i)perylene +	160,000	0.8	3	0.89	3.7 J	0.029 U
Benzo(a)pyrene	82	0.41	2.7	0.67	4 J	0.029 U
Chrysene	800	1.7	5.4	1.4	5.6 J	0.04
Dibenzo(a,h)anthracene	7.6	0.25	1.3	0.3	1.1 J	0.029 U
Fluoranthene	21,000	1.2	7.4	2.4	8.1 J	0.029 U
Fluorene	2,800	0.3	3.2	0.31	3.6 J	0.033
Indeno(1,2,3-cd)pyrene	69	0.52	2.5	0.62	2.5 J	0.029 U
Naphthalene	18	0.42	13	0.47	2.4 J	0.2
Phenanthrene +	1,100	1.9	9.7	2.5	13 J	0.13
Pyrene	21,000	1.8	8.9	1.9	14 J	0.029 U
PCBs (mg/kg)						
Aroclor 1016	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1221	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1232	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1242	--	1.9	0.55	1.3	0.1	0.094 U
Aroclor 1248	--	0.085 U	0.087 U	0.091 U	0.091 U	0.094 U
Aroclor 1254	--	1.6	0.52	0.91 U	0.18 U	0.19 U
Aroclor 1260	--	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U
Total PCBs	--	4.010	1.588	2.754	0.824	0.850 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	1 J	0.98 J	1 J	0.97 UJ	1.1 UJ
Arsenic*	120	4	2.5	4.3	6.9	5.7 J
Barium*	1,800	99 J	69 J	150 J	76 J	34 J
Beryllium*	130,000	0.79	0.5	0.87	0.48 U	0.57 U
Cadmium*	590	1.1	0.44	1.3	0.89	0.57 U
Chromium ***	21	12 J	9.2 J	15 J	15 J	18 J
Copper*	330,000	67 J	33 J	37 J	48 J	26 J
Lead**	--	130 J	46 J	94 J	120 J	22
Mercury*	32	0.2	0.1	0.53	0.33	0.029
Nickel*	14,000	11 J	12 J	14 J	22 J	31 J
Selenium*	1.3	0.93 U	0.82 U	1 U	0.97 U	1.1 U
Silver ***	39	0.93 U	0.82 U	1 U	0.97 U	1.1 U
Thallium*	34	1.2	1.1	1.5	0.97 U	1.2
Zinc*	32,000	240 J	98 J	210 J	150 J	46 J
Total Cyanide*	120	0.26 U	0.25 U	0.32 U	0.3 U	0.3 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) PCBs - Polychlorinated Biphenyls.

(6) J - Indicates an estimated value.

(7) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.

(8) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.

(9) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.

(10) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(11) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB23-001 1-2	SB24-001 1-2	SB25-001 1-2	SB25-002 3-5	SB25-003 12-14
TCL Volatiles (mg/kg)						
Acetone	16	0.056 U	0.056 U	0.12	0.11	0.058 U
Benzene	0.17	0.011 U	0.011 U	1.5	0.22	0.012 U
Bromodichloromethane	0.6	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Bromoform	0.8	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Bromomethane	1.2	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
2-Butanone	--	0.022 U	0.022 U	0.026	0.034 U	0.023 U
Carbon Disulfide	160	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Carbon Tetrachloride	0.33	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Chlorobenzene	6.5	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Chloroethane +	70	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
Chloroform	2.9	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Chloromethane +	0.68	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Dibromochloromethane	0.4	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1-Dichloroethane	110	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,2-Dichloroethane	0.1	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1-Dichloroethene	0.3	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
cis-1,2-Dichloroethene	1.1	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
trans-1,2-Dichloroethene	3.4	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,2-Dichloropropane	0.15	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
cis-1,3-Dichloropropene	0.02	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
trans-1,3-Dichloropropene	0.02	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Ethylbenzene	19	0.011 U	0.016	2.8	4.6	0.012 U
2-Hexanone +	1.3	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
4-Methyl-2-Pentanone	--	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
Methylene Chloride	0.2	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
Methyl tert-butyl ether	0.32	NA	NA	NA	NA	NA
Styrene	18	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1,2,2-Tetrachloroethane +	3.3	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Tetrachloroethene	0.3	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Toluene	29	0.011 U	0.011 U	0.03	0.54	0.012 U
1,1,1-Trichloroethane	9.6	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
1,1,2-Trichloroethane	0.3	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Trichloroethene	0.3	0.011 U	0.011 U	0.0091 U	0.017 U	0.012 U
Vinyl Chloride	0.07	0.022 U	0.022 U	0.018 U	0.034 U	0.023 U
m,p-Xylene*	150	0.011 U	0.011 U	0.068	6.7	0.012 U
o-Xylene*	150	0.011 U	0.011 U	0.72	6.8	0.012 U
Xylenes, Total	150	NA	NA	NA	NA	NA

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) Shaded value exceeds Tier 1 screening level.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) -- Toxicity criteria not available for exposure route.

(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(7) NA - Not analyzed.

(8) * The "total xylenes" screening level was used because it is more conservative.

(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB23-001 1-2	SB24-001 1-2	SB25-001 1-2	SB25-002 3-5	SB25-003 12-14
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Bis(2-chloroethyl)ether**	0.0004	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Bis(2-ethylhexyl)phthalate	31,000	2.1	1.7 U	0.36 U	1.2	0.42
4-Bromophenyl phenyl ether	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Butyl benzyl phthalate	930	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Carbazole	2.8	1.8 U	4.1	1.9	5.7	0.4 U
4-Chloro-3-methylphenol +	120	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4-Chloroaniline **	0.7	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Chloronaphthalene	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Chlorophenol **	1.5	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4-Chlorophenyl phenyl ether	--	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Dibenzofuran +	76	1.8 U	1.7 U	0.84	4.7	0.4 U
1,2-Dichlorobenzene	43	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
1,3-Dichlorobenzene + **	1.0	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
1,4-Dichlorobenzene	11	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
3,3´-Dichlorobenzidine**	0.033	3.7 U	3.5 U	0.72 U	0.81 U	0.8 U
2,4-Dichlorophenol **	0.48	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Diethyl phthalate	470	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Dimethyl phthalate +	380	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Di-n-butyl phthalate	2,300	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2,4-Dimethylphenol	9	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4,6-Dinitro-2-methylphenol	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
2,4-Dinitrophenol**	0.2	8.9 U	8.4 U	1.7 U	2 U	1.9 U
2,4-Dinitrotoluene**	0.0008	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2,6-Dinitrotoluene**	0.0007	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Di-n-octyl phthalate	10,000	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachlorobenzene	11	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachlorobutadiene +	15	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachlorocyclopentadiene	2,200	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Hexachloroethane	2.6	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
Isophorone	8	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Methylnaphthalene +	39	1.8 U	1.7 U	4.1	58	0.4
2-Methylphenol	15	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
4-Methylphenol ++	0.66	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Nitroaniline	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
3-Nitroaniline	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
4-Nitroaniline	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
Nitrobenzene**	0.1	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2-Nitrophenol	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
4-Nitrophenol	--	8.9 U	8.4 U	1.7 U	2 U	1.9 U
N-Nitrosodi-n-propylamine**	0.00005	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
N-Nitrosodiphenylamine	5.6	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.078 U	0.073 U	0.015 U	0.017 U	0.017 U
Pentachlorophenol**	0.10	8.9 U	8.4 U	1.7 U	2 U	1.9 U
Phenol	100	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
1,2,4-Trichlorobenzene	53	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U
2,4,5-Trichlorophenol	26	3.7 U	3.5 U	0.72 U	0.81 U	0.8 U
2,4,6-Trichlorophenol **	0.07	1.8 U	1.7 U	0.36 U	0.41 U	0.4 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) Shaded value exceeds Tier 1 screening level.

(6) **Values exceeded TACO or non-TACO screening level but were consistently non-detect so no values were shaded.

(7) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(8) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).

(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration SB23-001 1-2	SB24-001 1-2	SB25-001 1-2	SB25-002 3-5	SB25-003 12-14
PAHs (mg/kg)						
Acenaphthene	2,900	2.1	0.63	8.3	19	0.03 U
Acenaphthylene +	120	5	0.34	6.1	8.9	0.03 U
Anthracene	59,000	4.1	2.1	8.1	16	0.03 U
Benzo(a)anthracene	8	5.9	0.29	8	14	0.03 U
Benzo(b)fluoranthene	25	3.1	1.5	4	7	0.03 U
Benzo(k)fluoranthene	250	3.2	1.3	3.3	7	0.03 U
Benzo(g,h,i)perylene +	160,000	1.6	1.5	2.3	3.7	0.03 U
Benzo(a)pyrene	82	5	1.7	5.1	9.2	0.03 U
Chrysene	800	6.6	3.6	9.1	15	0.03 U
Dibenzo(a,h)anthracene	7.6	1.4 U	0.72	0.84	0.94	0.03 U
Fluoranthene	21,000	9.4	6.4	16	20	0.03 U
Fluorene	2,800	2.4	0.67	7	26	0.067
Indeno(1,2,3-cd)pyrene	69	1.4 U	1.4	2.1	3.1 U	0.03 U
Naphthalene	18	1.8	0.65	6.7	28	0.6
Phenanthrene +	1,100	10	5.4	30	62	0.15
Pyrene	21,000	14	7	24	32	0.03 U
PCBs (mg/kg)						
Aroclor 1016	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1221	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1232	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1242	--	0.95	1.1	0.086 U	0.098 U	0.096 U
Aroclor 1248	--	0.089 U	0.087 U	0.086 U	0.098 U	0.096 U
Aroclor 1254	--	0.72	0.9	0.17 U	0.2 U	0.19 U
Aroclor 1260	--	0.18 U	0.17 U	0.17 U	0.2 U	0.19 U
Total PCBs	--	2.206	2.518	0.770 U	0.890 U	0.860 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	1.1 J	1.1 J	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic*	120	5	2.5	3.2	7.8 J	11 J
Barium*	1,800	98 J	110 J	130 J	92 J	110 J
Beryllium*	130,000	0.76	0.62	0.76	1.3	1.2
Cadmium*	590	0.88	1.2	0.59	0.56 U	0.57 U
Chromium ***	21	10 J	13 J	7.8 J	17 J	18 J
Copper*	330,000	41 J	60 J	18 J	25 J	26 J
Lead**	--	140 J	150 J	61 J	58	17
Mercury*	32	0.21	0.2	0.17	0.35	0.03 U
Nickel*	14,000	13 J	12 J	6.9 J	29 J	28 J
Selenium*	1.3	0.99 U	0.96 U	1.1 U	1.1 U	1.1 U
Silver ***	39	0.99 U	0.96 U	1.1 U	1.1 U	1.1 U
Thallium*	34	1.4	1.3	1.4	1.8	1.9
Zinc*	32,000	120 J	270 J	73 J	58 J	41 J
Total Cyanide*	120	0.28 U	0.22 U	0.27 U	0.26 U	0.31 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.
(9) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.
(10) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.
(11) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(12) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB27-001 5-7	SB27-002 10-12	SB28-001 2-3	SB28-002 5-7	SB29-001 3-5
TCL Volatiles (mg/kg)						
Acetone	16	0.046	0.035 U	0.093	0.048	0.055 U
Benzene	0.17	0.0084 U	0.0069 U	0.041	0.0076 U	0.011 U
Bromodichloromethane	0.6	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Bromoform	0.8	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Bromomethane	1.2	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
2-Butanone	--	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Carbon Disulfide	160	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Carbon Tetrachloride	0.33	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Chlorobenzene	6.5	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Chloroethane +	70	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Chloroform	2.9	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Chloromethane +	0.68	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Dibromochloromethane	0.4	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1-Dichloroethane	110	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,2-Dichloroethane	0.1	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1-Dichloroethene	0.3	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
cis-1,2-Dichloroethene	1.1	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
trans-1,2-Dichloroethene	3.4	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,2-Dichloropropane	0.15	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
cis-1,3-Dichloropropene	0.02	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
trans-1,3-Dichloropropene	0.02	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Ethylbenzene	19	0.0084 U	0.0069 U	0.059	0.0076 U	0.011 U
2-Hexanone +	1.3	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
4-Methyl-2-Pentanone	--	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Methylene Chloride	0.2	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
Methyl tert-butyl ether	0.32	NA	NA	NA	NA	NA
Styrene	18	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1,2,2-Tetrachloroethane +	3.3	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Tetrachloroethene	0.3	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Toluene	29	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1,1-Trichloroethane	9.6	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
1,1,2-Trichloroethane	0.3	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Trichloroethene	0.3	0.0084 U	0.0069 U	0.0087 U	0.0076 U	0.011 U
Vinyl Chloride	0.07	0.017 U	0.014 U	0.017 U	0.015 U	0.022 U
m,p-Xylene*	150	0.0084 U	0.0069 U	0.012	0.0076 U	0.011 U
o-Xylene*	150	0.0084 U	0.0069 U	0.015	0.0076 U	0.011 U
Xylenes, Total	150	NA	NA	NA	NA	NA

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(6) NA - Not analyzed.

(7) * The "total xylenes" screening level was used because it is more conservative.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB27-001 5-7	SB27-002 10-12	SB28-001 2-3	SB28-002 5-7	SB29-001 3-5
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Bis(2-chloroethyl)ether**	0.0004	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	0.38 U	0.38 U	0.45	0.4 U	0.39 U
4-Bromophenyl phenyl ether	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Butyl benzyl phthalate	930	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Carbazole	2.8	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Chloro-3-methylphenol +	120	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Chloroaniline	0.7	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Chloronaphthalene	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Chlorophenol	1.5	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Dibenzofuran +	76	0.38 U	0.38 U	0.5	0.4 U	0.39 U
1,2-Dichlorobenzene	43	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
1,3-Dichlorobenzene +	1.0	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
1,4-Dichlorobenzene	11	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
3,3´-Dichlorobenzidine**	0.033	0.76 U	0.76 U	0.78 U	0.79 U	0.78 U
2,4-Dichlorophenol	0.48	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Diethyl phthalate	470	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Dimethyl phthalate +	380	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Di-n-butyl phthalate	2,300	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2,4-Dimethylphenol	9	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrophenol**	0.2	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene**	0.0008	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2,6-Dinitrotoluene**	0.0007	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Di-n-octyl phthalate	10,000	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachlorobenzene	11	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachlorobutadiene +	15	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachlorocyclopentadiene	2,200	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Hexachloroethane	2.6	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Isophorone	8	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Methylnaphthalene +	39	0.38 U	0.38 U	1.1	0.4 U	0.39 U
2-Methylphenol	15	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
4-Methylphenol ++	0.66	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Nitroaniline	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
3-Nitroaniline	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Nitroaniline	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Nitrobenzene**	0.1	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2-Nitrophenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Nitrophenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine**	0.00005	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
N-Nitrosodiphenylamine	5.6	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
Pentachlorophenol**	0.10	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	100	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
1,2,4-Trichlorobenzene	53	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U
2,4,5-Trichlorophenol	26	0.76 U	0.76 U	0.78 U	0.79 U	0.78 U
2,4,6-Trichlorophenol **	0.07	0.38 U	0.38 U	0.39 U	0.4 U	0.39 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) **Values exceeded TACO screening level but were consistently non-detect so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB27-001 5-7	SB27-002 10-12	SB28-001 2-3	SB28-002 5-7	SB29-001 3-5
PAHs (mg/kg)						
Acenaphthene	2,900	0.029 U	0.029 U	1.7	0.03 U	0.035
Acenaphthylene +	120	0.029 U	0.029 U	1.4	0.03 U	0.029 U
Anthracene	59,000	0.029 U	0.029 U	3.5	0.03 U	0.038
Benzo(a)anthracene	8	0.029 U	0.029 U	1.1	0.03 U	0.029 U
Benzo(b)fluoranthene	25	0.029 U	0.029 U	1.8	0.03 U	0.029 U
Benzo(k)fluoranthene	250	0.029 U	0.029 U	1.9	0.03 U	0.029 U
Benzo(g,h,i)perylene +	160,000	0.029 U	0.029 U	3	0.03 U	0.029 U
Benzo(a)pyrene	82	0.029 U	0.029 U	2.6	0.03 U	0.029 U
Chrysene	800	0.029 U	0.029 U	3.8	0.03 U	0.052
Dibenzo(a,h)anthracene	7.6	0.029 U	0.029 U	0.89	0.03 U	0.029 U
Fluoranthene	21,000	0.029 U	0.029 U	0.051	0.03 U	0.029
Fluorene	2,800	0.029 U	0.029 U	1.1	0.03 U	0.033
Indeno(1,2,3-cd)pyrene	69	0.029 U	0.029 U	1.9	0.03 U	0.029 U
Naphthalene	18	0.029 U	0.029 U	1.4	0.03 U	0.094
Phenanthrene +	1,100	0.031	0.047	0.038	0.03 U	0.14
Pyrene	21,000	0.029 U	0.029 U	0.097	0.03 U	0.044
PCBs (mg/kg)						
Aroclor 1016	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1221	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1232	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1242	--	0.094 U	0.093 U	0.34	0.14	0.094 U
Aroclor 1248	--	0.094 U	0.093 U	0.093 U	0.096 U	0.094 U
Aroclor 1254	--	0.19 U	0.19 U	0.2	0.19 U	0.19 U
Aroclor 1260	--	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Total PCBs	--	0.850 U	0.845 U	1.102	0.904	0.850 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic*	120	7.1 J	7 J	6.1	9.2 J	11 J
Barium*	1,800	32 J	39 J	67 J	41 J	41 J
Beryllium*	130,000	0.53 U	0.55 U	0.55 U	0.57 U	0.57 U
Cadmium*	590	0.53 U	0.55 U	0.71	0.57 U	0.57 U
Chromium ***	21	16 J	17 J	14 J	18 J	18 J
Copper*	330,000	39 J	29 J	42 J	27 J	30 J
Lead**	--	20	19	120 J	31	23
Mercury*	32	0.028 U	0.028 U	0.53	0.049	0.031
Nickel*	14,000	31 J	30 J	20 J	33 J	38 J
Selenium*	1.3	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Silver ***	39	12	1.1 U	1.1 U	1.1 U	1.1 U
Thallium*	34	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Zinc*	32,000	50 J	42 J	150 J	61 J	46 J
Total Cyanide*	120	0.28 U	0.27 U	0.29 U	0.3 U	0.28 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) PCBs - Polychlorinated Biphenyls.

(6) J - Indicates an estimated value.

(7) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.

(8) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.

(9) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.

(10) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(11) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB29-002 12-14	SB31-001 2-3	SB31-002 6-8	SB32-001 2-3	SB32-002 3-5
TCL Volatiles (mg/kg)						
Acetone	16	0.067 U	0.03	0.064 U	0.067 U	0.081 U
Benzene	0.17	0.013 U	0.024	0.013 U	5.2	0.77
Bromodichloromethane	0.6	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Bromoform	0.8	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Bromomethane	1.2	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
2-Butanone	--	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Carbon Disulfide	160	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Carbon Tetrachloride	0.33	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Chlorobenzene	6.5	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Chloroethane +	70	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Chloroform	2.9	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Chloromethane +	0.68	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Dibromochloromethane	0.4	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1-Dichloroethane	110	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,2-Dichloroethane	0.1	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1-Dichloroethene	0.3	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
cis-1,2-Dichloroethene	1.1	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
trans-1,2-Dichloroethene	3.4	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,2-Dichloropropane	0.15	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
cis-1,3-Dichloropropene	0.02	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
trans-1,3-Dichloropropene	0.02	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Ethylbenzene	19	0.013 U	0.038	0.013 U	1.5	2
2-Hexanone +	1.3	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
4-Methyl-2-Pentanone	--	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Methylene Chloride	0.2	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
Methyl tert-butyl ether	0.32	NA	NA	NA	NA	NA
Styrene	18	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1,2,2-Tetrachloroethane +	3.3	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Tetrachloroethene	0.3	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Toluene	29	0.013 U	0.032	0.013 U	0.77	0.016 U
1,1,1-Trichloroethane	9.6	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
1,1,2-Trichloroethane	0.3	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Trichloroethene	0.3	0.013 U	0.0042 U	0.013 U	0.013 U	0.016 U
Vinyl Chloride	0.07	0.027 U	0.0084 U	0.026 U	0.027 U	0.033 U
m,p-Xylene*	150	0.013 U	0.047	0.013 U	0.62	0.057
o-Xylene*	150	0.013 U	0.029	0.013 U	0.47	0.034
Xylenes, Total	150	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) Shaded value exceeds Tier 1 screening level.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB29-002 12-14	SB31-001 2-3	SB31-002 6-8	SB32-001 2-3	SB32-002 3-5
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Bis(2-chloroethyl)ether**	0.0004	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	0.33 U	0.37 U	0.99	0.87
4-Bromophenyl phenyl ether	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Butyl benzyl phthalate	930	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Carbazole	2.8	0.39 U	0.33 U	0.37 U	0.46	1.3
4-Chloro-3-methylphenol +	120	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4-Chloroaniline	0.7	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Chloronaphthalene	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Chlorophenol	1.5	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Dibenzofuran +	76	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
1,2-Dichlorobenzene	43	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
1,3-Dichlorobenzene +	1.0	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
1,4-Dichlorobenzene	11	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
3,3´-Dichlorobenzidine**	0.033	0.78 U	0.33 U	0.74 U	0.66 U	0.78 U
2,4-Dichlorophenol	0.48	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Diethyl phthalate	470	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Dimethyl phthalate +	380	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Di-n-butyl phthalate	2,300	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2,4-Dimethylphenol	9	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
2,4-Dinitrophenol**	0.2	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
2,4-Dinitrotoluene**	0.0008	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2,6-Dinitrotoluene**	0.0007	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Di-n-octyl phthalate	10,000	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachlorobenzene	11	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachlorobutadiene +	15	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachlorocyclopentadiene	2,200	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Hexachloroethane	2.6	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
Isophorone	8	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Methylnaphthalene +	39	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Methylphenol	15	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
4-Methylphenol ++	0.66	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Nitroaniline	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
3-Nitroaniline	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
4-Nitroaniline	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
Nitrobenzene**	0.1	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2-Nitrophenol	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
4-Nitrophenol	--	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
N-Nitrosodi-n-propylamine**	0.00005	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
N-Nitrosodiphenylamine	5.6	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.39 U	0.33 U	0.016 U	0.014 U	0.017 U
Pentachlorophenol**	0.10	1.9 U	1.7 U	1.8 U	1.6 U	1.9 U
Phenol	100	0.39 U	15	0.37 U	0.33 U	0.39 U
1,2,4-Trichlorobenzene	53	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U
2,4,5-Trichlorophenol	26	0.78 U	0.66 U	0.74 U	0.66 U	0.78 U
2,4,6-Trichlorophenol **	0.07	0.39 U	0.33 U	0.37 U	0.33 U	0.39 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) **Values exceeded TACO screening level but were consistently non-detect so no values were shaded.

(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(7) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB29-002 12-14	SB31-001 2-3	SB31-002 6-8	SB32-001 2-3	SB32-002 3-5
PAHs (mg/kg)						
Acenaphthene	2,900	0.029 U	0.44	0.028 U	0.8	0.84
Acenaphthylene +	120	0.029 U	0.13 U	0.029	1.2	0.99
Anthracene	59,000	0.029 U	0.7	0.047	1.5	0.98
Benzo(a)anthracene	8	0.029 U	0.2	0.028 U	2.7	1.8
Benzo(b)fluoranthene	25	0.029 U	0.84	0.028 U	1.2	0.87
Benzo(k)fluoranthene	250	0.029 U	0.48	0.028 U	0.76	0.75
Benzo(g,h,i)perylene +	160,000	0.029 U	1.5	0.028 U	0.61	0.38
Benzo(a)pyrene	82	0.029 U	0.91	0.028 U	1.7	1.1
Chrysene	800	0.029 U	1.5	0.075	2.5	1.7
Dibenzo(a,h)anthracene	7.6	0.029 U	0.13 U	0.028 U	0.25 U	0.3 U
Fluoranthene	21,000	0.029 U	0.67	0.075	3.4	2.8
Fluorene	2,800	0.029 U	0.53	0.03	1	0.87
Indeno(1,2,3-cd)pyrene	69	0.029 U	1.1	0.028 U	0.56	0.34
Naphthalene	18	0.029 U	0.68	0.11	0.25 U	2.1
Phenanthrene +	1,100	0.036	2	0.17	3.8	3.7
Pyrene	21,000	0.029 U	1.1	0.13	4.6	4
PCBs (mg/kg)						
Aroclor 1016	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1221	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1232	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1242	--	0.095 U	3.7	0.093 U	1.3	0.15
Aroclor 1248	--	0.095 U	0.083 U	0.093 U	0.085 U	0.093 U
Aroclor 1254	--	0.19 U	1.8	0.19 U	1.1	0.19 U
Aroclor 1260	--	0.19 U	0.17 U	0.19 U	0.17 U	0.19 U
Total PCBs	--	0.855 U	6.002	0.845 U	2.910	0.902
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	1.1 UJ	1 UJ	1.1 UJ	1.1 J	1.1 J
Arsenic*	120	7.2 J	5	12 J	4.8	3.4 J
Barium*	1,800	38 J	43 J	31 J	110 J	80 J
Beryllium*	130,000	0.55 U	0.62	0.93	1	0.9
Cadmium*	590	0.55 U	1.2	0.55 U	1.2	0.7
Chromium ***	21	17 J	16 J	19 J	29 J	13 J
Copper*	330,000	27 J	33 J	29 J	91 J	35 J
Lead**	--	18	120 J	18	190 J	65
Mercury*	32	0.032	0.25	0.037	0.21	0.052
Nickel*	14,000	32 J	18 J	31 J	18 J	11 J
Selenium*	1.3	1.1 U	1 U	1.1 U	0.98 U	1.1 U
Silver ***	39	1.1 U	1 U	1.1 U	0.98 U	1.1 U
Thallium*	34	1.1 U	1 U	1.2	1.3	1.5
Zinc*	32,000	50 J	200 J	45 J	260 J	88 J
Total Cyanide*	120	0.29 U	0.24 U	0.27 U	0.25 U	0.27 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) J - Indicates an estimated value.

(8) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.

(9) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.

(10) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.

(11) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(12) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB33-001 0-0.5	SB33-002 5-7	SB33-003 10-12	SP34-001 0-0.5	SP34-002 5-7
TCL Volatiles (mg/kg)						
Acetone	16	0.042 U	0.12	0.064 U	0.041 U	0.14
Benzene	0.17	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Bromodichloromethane	0.6	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Bromoform	0.8	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Bromomethane	1.2	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
2-Butanone	--	0.017 U	0.027	0.026 U	0.017 U	0.024 U
Carbon Disulfide	160	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Carbon Tetrachloride	0.33	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Chlorobenzene	6.5	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Chloroethane +	70	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
Chloroform	2.9	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Chloromethane +	0.68	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Dibromochloromethane	0.4	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1-Dichloroethane	110	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,2-Dichloroethane	0.1	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1-Dichloroethene	0.3	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
cis-1,2-Dichloroethene	1.1	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
trans-1,2-Dichloroethene	3.4	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,2-Dichloropropane	0.15	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
cis-1,3-Dichloropropene	0.02	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
trans-1,3-Dichloropropene	0.02	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Ethylbenzene	19	0.01	0.012 U	0.013 U	0.015	0.012 U
2-Hexanone +	1.3	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
4-Methyl-2-Pentanone	--	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
Methylene Chloride	0.2	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
Methyl tert-butyl ether	0.32	NA	NA	NA	NA	NA
Styrene	18	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1,2,2-Tetrachloroethane +	3.3	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Tetrachloroethene	0.3	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Toluene	29	0.0084 U	0.012 U	0.013 U	0.013	0.012 U
1,1,1-Trichloroethane	9.6	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
1,1,2-Trichloroethane	0.3	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Trichloroethene	0.3	0.0084 U	0.012 U	0.013 U	0.0083 U	0.012 U
Vinyl Chloride	0.07	0.017 U	0.024 U	0.026 U	0.017 U	0.024 U
m,p-Xylene*	150	0.0084 U	0.012 U	0.013 U	0.043	0.012 U
o-Xylene*	150	0.0084 U	0.025	0.013 U	0.033	0.012 U
Xylenes, Total	150	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) NA - Not analyzed.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB33-001 0-0.5	SB33-002 5-7	SB33-003 10-12	SP34-001 0-0.5	SP34-002 5-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Bis(2-chloroethyl)ether**	0.0004	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Bis(2-ethylhexyl)phthalate	31,000	2 U	0.4 U	0.39 U	2	0.4 U
4-Bromophenyl phenyl ether	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Butyl benzyl phthalate	930	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Carbazole	2.8	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Chloro-3-methylphenol +	120	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Chloroaniline	0.7	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Chloronaphthalene	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Chlorophenol	1.5	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Chlorophenyl phenyl ether	--	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Dibenzofuran +	76	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,2-Dichlorobenzene	43	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,3-Dichlorobenzene + **	1.0	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,4-Dichlorobenzene	11	2 U	0.4 U	0.39 U	1.8 U	0.4 U
3,3´-Dichlorobenzidine**	0.033	4.1 U	0.81 U	0.79 U	3.5 U	0.8 U
2,4-Dichlorophenol	0.48	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Diethyl phthalate	470	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Dimethyl phthalate +	380	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Di-n-butyl phthalate	2,300	6.3	0.4 U	0.39 U	1.8 U	0.4 U
2,4-Dimethylphenol	9	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4,6-Dinitro-2-methylphenol	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
2,4-Dinitrophenol**	0.2	9.9 U	2 U	1.9 U	8.6 U	1.9 U
2,4-Dinitrotoluene**	0.0008	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2,6-Dinitrotoluene**	0.0007	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Di-n-octyl phthalate	10,000	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachlorobenzene	11	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachlorobutadiene +	15	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachlorocyclopentadiene	2,200	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Hexachloroethane	2.6	2 U	0.4 U	0.39 U	1.8 U	0.4 U
Isophorone	8	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Methylnaphthalene +	39	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Methylphenol	15	2 U	0.4 U	0.39 U	1.8 U	0.4 U
4-Methylphenol ++	0.66	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Nitroaniline	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
3-Nitroaniline	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
4-Nitroaniline	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
Nitrobenzene**	0.1	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2-Nitrophenol	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
4-Nitrophenol	--	9.9 U	2 U	1.9 U	8.6 U	1.9 U
N-Nitrosodi-n-propylamine**	0.00005	2 U	0.4 U	0.39 U	1.8 U	0.4 U
N-Nitrosodiphenylamine	5.6	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.087 U	0.017 U	0.017 U	0.075 U	0.017 U
Pentachlorophenol**	0.10	9.9 U	2 U	1.9 U	8.6 U	1.9 U
Phenol	100	2 U	0.4 U	0.39 U	1.8 U	0.4 U
1,2,4-Trichlorobenzene	53	2 U	0.4 U	0.39 U	1.8 U	0.4 U
2,4,5-Trichlorophenol	26	4.1 U	0.81 U	0.79 U	3.5 U	0.8 U
2,4,6-Trichlorophenol **	0.07	2 U	0.4 U	0.39 U	1.8 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) **Values exceeded TACO or non-TACO screening level but were consistently non-detect so no values were shaded.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB33-001 0-0.5	SB33-002 5-7	SB33-003 10-12	SP34-001 0-0.5	SP34-002 5-7
PAHs (mg/kg)						
Acenaphthene	2,900	1.5 U	0.031 U	0.03 U	0.13 U	0.12
Acenaphthylene +	120	1.6	0.031 U	0.03 U	0.19	0.086
Anthracene	59,000	1.8	0.031 U	0.03 U	0.36	0.17
Benzo(a)anthracene	8	2.8	0.031 U	0.03 U	0.13 U	0.094
Benzo(b)fluoranthene	25	1.7	0.031 U	0.03 U	0.24	0.13
Benzo(k)fluoranthene	250	1.5 U	0.031 U	0.03 U	0.24	0.14
Benzo(g,h,i)perylene +	160,000	1.5 U	0.031 U	0.03 U	0.57	0.36
Benzo(a)pyrene	82	1.8	0.031 U	0.03 U	0.13	0.14
Chrysene	800	3.2	0.031 U	0.041	0.75	0.39
Dibenzo(a,h)anthracene	7.6	1.5 U	0.031 U	0.03 U	0.13 U	0.11
Fluoranthene	21,000	3.7	0.031 U	0.039	0.21	0.33
Fluorene	2,800	1.5 U	0.031 U	0.03 U	0.13 U	0.31
Indeno(1,2,3-cd)pyrene	69	1.5 U	0.031 U	0.03 U	0.29	0.24
Naphthalene	18	2.1	0.14	0.042	0.38	0.03 U
Phenanthrene +	1,100	4.1	0.076	0.083	1.3	0.13
Pyrene	21,000	5.5	0.047	0.033	0.36	1.2
PCBs (mg/kg)						
Aroclor 1016	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1221	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1232	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1242	--	2.5	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1248	--	0.088 U	0.096 U	0.094 U	0.87 U	0.098 U
Aroclor 1254	--	2.2	0.19 U	0.19 U	1.7 U	0.2 U
Aroclor 1260	--	0.18 U	0.19 U	0.19 U	1.7 U	0.2 U
Total PCBs	--	5.232	0.860 U	0.850 U	7.750 U	0.890 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	1.1 UJ	1.1 UJ	1.1 UJ	1 UJ	1.2 UJ
Arsenic*	120	5.9	5.1 J	17 J	1.2	7.5 J
Barium*	1,800	100 J	97 J	63 J	59 J	100 J
Beryllium*	130,000	0.86	1.2	1	0.57	1.3
Cadmium*	590	0.59	0.59	0.54 U	0.54	0.59 U
Chromium ***	21	11 J	17 J	16 J	5.1 J	21 J
Copper*	330,000	43 J	31 J	55 J	6.8 J	28 J
Lead**	--	140 J	17	30	25 J	19
Mercury*	32	0.28	0.046	0.023 U	0.026 U	0.031 U
Nickel*	14,000	12 J	26 J	30 J	7.4 J	33 J
Selenium*	1.3	1.1 U	1.1 U	1.1 U	1 U	1.2 U
Silver ***	39	1.1 U	1.1 U	1.1 U	1 U	1.2 U
Thallium*	34	1.5	1.9	2	1.3	2.1
Zinc*	32,000	69 J	54 J	43 J	29 J	53 J
Total Cyanide*	120	0.29 U	0.34 U	0.29 U	0.27 U	0.31 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) PCBs - Polychlorinated Biphenyls.

(6) J - Indicates an estimated value.

(7) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.

(8) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.

(9) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.

(10) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(11) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP35-001 1-2	SP35-002 6-7	SP35-003 12-13	SP37-001 1-2	SP37-002 8-9
TCL Volatiles (mg/kg)						
Acetone	16	0.14	0.13	0.042 U	0.044 U	0.082
Benzene	0.17	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Bromodichloromethane	0.6	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Bromoform	0.8	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Bromomethane	1.2	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
2-Butanone	--	0.015	0.027	0.017 U	0.018 U	0.02 U
Carbon Disulfide	160	0.013	0.012 U	0.0084 U	0.0088 U	0.0099 U
Carbon Tetrachloride	0.33	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Chlorobenzene	6.5	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Chloroethane +	70	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
Chloroform	2.9	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Chloromethane +	0.68	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Dibromochloromethane	0.4	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1-Dichloroethane	110	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,2-Dichloroethane	0.1	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1-Dichloroethene	0.3	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
cis-1,2-Dichloroethene	1.1	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
trans-1,2-Dichloroethene	3.4	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,2-Dichloropropane	0.15	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
cis-1,3-Dichloropropene	0.02	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
trans-1,3-Dichloropropene	0.02	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Ethylbenzene	19	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
2-Hexanone +	1.3	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
4-Methyl-2-Pentanone	--	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
Methylene Chloride	0.2	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
Methyl tert-butyl ether	0.32	NA	NA	NA	NA	NA
Styrene	18	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1,2,2-Tetrachloroethane +	3.3	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Tetrachloroethene	0.3	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Toluene	29	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1,1-Trichloroethane	9.6	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
1,1,2-Trichloroethane	0.3	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Trichloroethene	0.3	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Vinyl Chloride	0.07	0.014 U	0.023 U	0.017 U	0.018 U	0.02 U
m,p-Xylene*	150	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
o-Xylene*	150	0.0071 U	0.012 U	0.0084 U	0.0088 U	0.0099 U
Xylenes, Total	150	NA	NA	NA	NA	NA

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(6) NA - Not analyzed.

(7) * The "total xylenes" screening level was used because it is more conservative.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP35-001 1-2	SP35-002 6-7	SP35-003 12-13	SP37-001 1-2	SP37-002 8-9
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Bis(2-chloroethyl)ether**	0.0004	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	5.6	0.39 U	0.39 U	0.42 U	0.39 U
4-Bromophenyl phenyl ether	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Butyl benzyl phthalate	930	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Carbazole	2.8	0.47	0.39 U	0.39 U	0.67	0.39 U
4-Chloro-3-methylphenol +	120	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4-Chloroaniline	0.7	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Chloronaphthalene	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Chlorophenol	1.5	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Dibenzofuran +	76	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,2-Dichlorobenzene	43	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,3-Dichlorobenzene +	1.0	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,4-Dichlorobenzene	11	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
3,3´-Dichlorobenzidine**	0.033	0.71 U	0.79 U	0.77 U	0.85 U	0.77 U
2,4-Dichlorophenol	0.48	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Diethyl phthalate	470	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Dimethyl phthalate +	380	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Di-n-butyl phthalate	2,300	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2,4-Dimethylphenol	9	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
2,4-Dinitrophenol**	0.2	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
2,4-Dinitrotoluene**	0.0008	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2,6-Dinitrotoluene**	0.0007	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Di-n-octyl phthalate	10,000	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachlorobenzene	11	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachlorobutadiene +	15	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachlorocyclopentadiene	2,200	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Hexachloroethane	2.6	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
Isophorone	8	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Methylnaphthalene +	39	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Methylphenol	15	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
4-Methylphenol ++	0.66	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Nitroaniline	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
3-Nitroaniline	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
4-Nitroaniline	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
Nitrobenzene**	0.1	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2-Nitrophenol	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
4-Nitrophenol	--	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
N-Nitrosodi-n-propylamine**	0.00005	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
N-Nitrosodiphenylamine	5.6	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.015 U	0.017 U	0.016 U	0.018 U	0.016 U
Pentachlorophenol**	0.10	1.7 U	1.9 U	1.9 U	2.1 U	1.9 U
Phenol	100	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
1,2,4-Trichlorobenzene	53	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U
2,4,5-Trichlorophenol	26	0.71 U	0.79 U	0.77 U	0.85 U	0.77 U
2,4,6-Trichlorophenol **	0.07	0.36 U	0.39 U	0.39 U	0.42 U	0.39 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) **Values exceeded TACO screening level but were consistently non-detect so no values were shaded.

(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(7) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP35-001 1-2	SP35-002 6-7	SP35-003 12-13	SP37-001 1-2	SP37-002 8-9
PAHs (mg/kg)						
Acenaphthene	2,900	0.11	0.03 U	0.029 U	0.13	0.029 U
Acenaphthylene +	120	0.082	0.03 U	0.029 U	0.074	0.029 U
Anthracene	59,000	0.15	0.03 U	0.029 U	0.33	0.029 U
Benzo(a)anthracene	8	0.19	0.064	0.029 U	0.17	0.029 U
Benzo(b)fluoranthene	25	0.47	0.041	0.029 U	0.38	0.029 U
Benzo(k)fluoranthene	250	0.53	0.056	0.029 U	0.87	0.029 U
Benzo(g,h,i)perylene +	160,000	0.57	0.037	0.029 U	0.35	0.029 U
Benzo(a)pyrene	82	0.33	0.072	0.029 U	0.32	0.029 U
Chrysene	800	0.71	0.066	0.029 U	1.1	0.029 U
Dibenzo(a,h)anthracene	7.6	0.076	0.03 U	0.029 U	0.19	0.029 U
Fluoranthene	21,000	0.55	0.074	0.029 U	2	0.029 U
Fluorene	2,800	0.086	0.03 U	0.029 U	0.12	0.029 U
Indeno(1,2,3-cd)pyrene	69	0.18	0.036	0.029 U	0.36	0.029 U
Naphthalene	18	0.16	0.03 U	0.029 U	0.18	0.056
Phenanthrene +	1,100	0.7	0.03 U	0.029 U	1	0.029 U
Pyrene	21,000	0.63	0.074	0.029 U	2.1	0.029 U
PCBs (mg/kg)						
Aroclor 1016	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1221	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1232	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1242	--	8.5	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1248	--	0.086 U	0.095 U	0.095 U	0.1 U	0.092 U
Aroclor 1254	--	6	0.19 U	0.19 U	0.2 U	0.18 U
Aroclor 1260	--	0.17 U	0.19 U	0.19 U	0.2 U	0.18 U
Total PCBs	--	15.014	0.855 U	0.855 U	0.900 U	0.820 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	6.5 J	1.1 UJ	1.1 UJ	1.2 UJ	0.97 UJ
Arsenic*	120	20	5.8 J	12 J	7.2	15 J
Barium*	1,800	520 J	98 J	89 J	120 J	98 J
Beryllium*	130,000	1.4	0.83	1.1	1.1	1.2
Cadmium*	590	8.1	0.56 U	0.56 U	0.72	0.53
Chromium ***	21	320 J	11 J	20 J	19 J	20 J
Copper*	330,000	480 J	11 J	30 J	28 J	38 J
Lead**	--	1400 J	36	25	61 J	22
Mercury*	32	2.6	0.14	0.024 U	0.33	0.026 U
Nickel*	14,000	210 J	12 J	35 J	26 J	38 J
Selenium*	1.3	0.99 U	1.1 U	1.1 U	1.2 U	0.97 U
Silver ***	39	1	1.1 U	1.1 U	1.2 U	0.97 U
Thallium*	34	1.3	2	2.2	2	2
Zinc*	32,000	1600 J	40 J	49 J	73 J	46 J
Total Cyanide*	120	0.28 U	0.29 U	0.24 U	0.35 U	0.25 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) J - Indicates an estimated value.
(8) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.
(9) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.
(10) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.
(11) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(12) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP37-003 12-13	SB38-001 5-7	SP39-001 1-2	SP39-002 5-6	SP39-003 10-11
TCL Volatiles (mg/kg)						
Acetone	16	0.066 J	0.12 J	0.036 U	0.11	0.047 U
Benzene	0.17	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Bromodichloromethane	0.6	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Bromoform	0.8	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Bromomethane	1.2	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
2-Butanone	--	0.023 U	0.029 UJ	0.014 U	0.027	0.019 U
Carbon Disulfide	160	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Carbon Tetrachloride	0.33	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Chlorobenzene	6.5	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Chloroethane +	70	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
Chloroform	2.9	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Chloromethane +	0.68	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Dibromochloromethane	0.4	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1-Dichloroethane	110	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,2-Dichloroethane	0.1	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1-Dichloroethene	0.3	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
cis-1,2-Dichloroethene	1.1	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
trans-1,2-Dichloroethene	3.4	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,2-Dichloropropane	0.15	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
cis-1,3-Dichloropropene	0.02	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
trans-1,3-Dichloropropene	0.02	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Ethylbenzene	19	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
2-Hexanone +	1.3	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
4-Methyl-2-Pentanone	--	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
Methylene Chloride	0.2	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
Methyl tert-butyl ether	0.32	NA	NA	NA	NA	NA
Styrene	18	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1,2,2-Tetrachloroethane +	3.3	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Tetrachloroethene	0.3	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Toluene	29	0.012 U	0.014 UJ	0.008	0.013 U	0.0094 U
1,1,1-Trichloroethane	9.6	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
1,1,2-Trichloroethane	0.3	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Trichloroethene	0.3	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Vinyl Chloride	0.07	0.023 U	0.029 UJ	0.014 U	0.026 U	0.019 U
m,p-Xylene*	150	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
o-Xylene*	150	0.012 U	0.014 UJ	0.0071 U	0.013 U	0.0094 U
Xylenes, Total	150	NA	NA	NA	NA	NA

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) J - Indicates an estimated value.

(5) -- Toxicity criteria not available for exposure route.

(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(7) NA - Not analyzed.

(8) * The "total xylenes" screening level was used because it is more conservative.

(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP37-003 12-13	SB38-001 5-7	SP39-001 1-2	SP39-002 5-6	SP39-003 10-11
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Bis(2-chloroethyl)ether**	0.0004	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Bis(2-ethylhexyl)phthalate	31,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Bromophenyl phenyl ether	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Butyl benzyl phthalate	930	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Carbazole	2.8	0.38 U	0.53	1.7 U	0.4 U	0.38 U
4-Chloro-3-methylphenol +	120	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Chloroaniline **	0.7	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Chloronaphthalene	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Chlorophenol **	1.5	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Chlorophenyl phenyl ether	--	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Dibenzofuran +	76	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,2-Dichlorobenzene	43	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,3-Dichlorobenzene + **	1.0	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,4-Dichlorobenzene	11	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
3,3´-Dichlorobenzidine**	0.033	0.75 U	0.83 U	3.5 U	0.8 U	0.77 U
2,4-Dichlorophenol **	0.48	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Diethyl phthalate	470	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Dimethyl phthalate +	380	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Di-n-butyl phthalate	2,300	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2,4-Dimethylphenol	9	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4,6-Dinitro-2-methylphenol	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
2,4-Dinitrophenol**	0.2	1.8 U	2 U	8.4 U	1.9 U	1.9 U
2,4-Dinitrotoluene**	0.0008	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2,6-Dinitrotoluene**	0.0007	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Di-n-octyl phthalate	10,000	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachlorobenzene	11	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachlorobutadiene +	15	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachlorocyclopentadiene	2,200	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Hexachloroethane	2.6	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
Isophorone	8	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Methylnaphthalene +	39	0.38 U	1.7	1.7 U	0.4 U	0.38 U
2-Methylphenol	15	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
4-Methylphenol ++	0.66	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Nitroaniline	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
3-Nitroaniline	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
4-Nitroaniline	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
Nitrobenzene**	0.1	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2-Nitrophenol	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
4-Nitrophenol	--	1.8 U	2 U	8.4 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine**	0.00005	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
N-Nitrosodiphenylamine	5.6	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.018 U	0.074 U	0.017 U	0.016 U
Pentachlorophenol**	0.10	1.8 U	2 U	8.4 U	1.9 U	1.9 U
Phenol	100	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
1,2,4-Trichlorobenzene	53	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U
2,4,5-Trichlorophenol	26	0.75 U	0.83 U	3.5 U	0.8 U	0.77 U
2,4,6-Trichlorophenol **	0.07	0.38 U	0.42 U	1.7 U	0.4 U	0.38 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) **Values exceeded TACO or non-TACO screening level but were consistently non-detect so no values were shaded.

(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(7) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP37-003 12-13	SB38-001 5-7	SP39-001 1-2	SP39-002 5-6	SP39-003 10-11
PAHs (mg/kg)						
Acenaphthene	2,900	0.028 U	0.42	1.3 U	0.056	0.029 U
Acenaphthylene +	120	0.028 U	0.37	1.3 U	0.03 U	0.029 U
Anthracene	59,000	0.028 U	1.7	1.3 U	0.29	0.03
Benzo(a)anthracene	8	0.028 U	1.9	1.3 U	0.13	0.029 U
Benzo(b)fluoranthene	25	0.028 U	1.1	1.3 U	0.58	0.029 U
Benzo(k)fluoranthene	250	0.028 U	0.96	1.3 U	0.65	0.029 U
Benzo(g,h,i)perylene +	160,000	0.028 U	0.46	1.3 U	0.31	0.029 U
Benzo(a)pyrene	82	0.028 U	0.89	1.3 U	0.64	0.029 U
Chrysene	800	0.028 U	2.3	1.3 U	1.1	0.056
Dibenzo(a,h)anthracene	7.6	0.028 U	0.15	1.3 U	0.23	0.029 U
Fluoranthene	21,000	0.028 U	4.1	1.3 U	1.6	0.081
Fluorene	2,800	0.028 U	0.7	1.3 U	0.056	0.029 U
Indeno(1,2,3-cd)pyrene	69	0.028 U	0.38	1.3 U	0.3 U	0.029 U
Naphthalene	18	0.028 U	2	1.3 U	0.032	0.029 U
Phenanthrene +	1,100	0.028 U	5.7	1.3	0.81	0.071
Pyrene	21,000	0.028 U	4.7	2	1.7	0.076
PCBs (mg/kg)						
Aroclor 1016	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1221	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1232	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1242	--	0.092 U	0.1 U	0.087 U	0.1 U	0.14
Aroclor 1248	--	0.092 U	0.1 U	0.087 U	0.1 U	0.095 U
Aroclor 1254	--	0.18 U	0.2 U	0.17 U	0.2 U	0.19 U
Aroclor 1260	--	0.18 U	0.2 U	0.17 U	0.2 U	0.19 U
Total PCBs	--	0.820 U	0.900 U	0.775 U	0.900 U	0.900
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	1.2 UJ	1.3 UJ	1.1 UJ	6 J	1 UJ
Arsenic*	120	7.7 J	7.7 J	1.7	10 J	8.1 J
Barium*	1,800	85 J	49 J	57 J	140 J	83 J
Beryllium*	130,000	1.1	1.1	0.59	1.1	1.1
Cadmium*	590	0.59 U	0.69	0.95	1	0.51 U
Chromium ***	21	19 J	22 J	5.6 J	11 J	19 J
Copper*	330,000	25 J	33 J	9.1 J	59 J	30 J
Lead**	--	17	40	23 J	970	19
Mercury*	32	0.029 U	0.051	0.025 U	6.2	0.027
Nickel*	14,000	25 J	28 J	8.8 J	13 J	29 J
Selenium*	1.3	1.2 U	1.3 U	1.1 U	1.1 U	1 U
Silver ***	39	1.2 U	1.3 U	1.1 U	1.1 U	1 U
Thallium*	34	1.8	1.5	1.4	1.6	1.9
Zinc*	32,000	37 J	88 J	33 J	200 J	40 J
Total Cyanide*	120	0.31 U	0.33 U	0.28 U	0.31 U	0.3 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) Shaded value exceeds Tier 1 screening level.

(6) PCBs - Polychlorinated Biphenyls.

(7) J - Indicates an estimated value.

(8) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.

(9) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.

(10) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.

(11) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(12) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP40-002 7-8	SP40-003 14-15	SP43-001 2-3	SP43-002 3.5-4.5	SP43-003 11-12
TCL Volatiles (mg/kg)						
Acetone	16	0.071	0.043 U	0.15	0.063 U	0.041 U
Benzene	0.17	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Bromodichloromethane	0.6	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Bromoform	0.8	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Bromomethane	1.2	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
2-Butanone	--	0.02 U	0.017 U	0.031	0.025 U	0.017 U
Carbon Disulfide	160	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Carbon Tetrachloride	0.33	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Chlorobenzene	6.5	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Chloroethane +	70	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
Chloroform	2.9	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Chloromethane +	0.68	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Dibromochloromethane	0.4	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1-Dichloroethane	110	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,2-Dichloroethane	0.1	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1-Dichloroethene	0.3	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
cis-1,2-Dichloroethene	1.1	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
trans-1,2-Dichloroethene	3.4	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,2-Dichloropropane	0.15	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
cis-1,3-Dichloropropene	0.02	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
trans-1,3-Dichloropropene	0.02	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Ethylbenzene	19	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
2-Hexanone +	1.3	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
4-Methyl-2-Pentanone	--	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
Methylene Chloride	0.2	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
Methyl tert-butyl ether	0.32	NA	NA	NA	NA	NA
Styrene	18	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1,2,2-Tetrachloroethane +	3.3	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Tetrachloroethene	0.3	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Toluene	29	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1,1-Trichloroethane	9.6	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
1,1,2-Trichloroethane	0.3	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Trichloroethene	0.3	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Vinyl Chloride	0.07	0.02 U	0.017 U	0.027 U	0.025 U	0.017 U
m,p-Xylene*	150	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
o-Xylene*	150	0.01 U	0.0087 U	0.013 U	0.013 U	0.0083 U
Xylenes, Total	150	NA	NA	NA	NA	NA

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(6) NA - Not analyzed.

(7) * The "total xylenes" screening level was used because it is more conservative.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP40-002 7-8	SP40-003 14-15	SP43-001 2-3	SP43-002 3.5-4.5	SP43-003 11-12
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Bis(2-chloroethyl)ether**	0.0004	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Bromophenyl phenyl ether	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Butyl benzyl phthalate	930	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Carbazole	2.8	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Chloro-3-methylphenol +	120	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Chloroaniline	0.7	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Chloronaphthalene	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Chlorophenol	1.5	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Dibenzofuran +	76	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,2-Dichlorobenzene	43	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,3-Dichlorobenzene +	1.0	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,4-Dichlorobenzene	11	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
3,3´-Dichlorobenzidine**	0.033	0.77 U	0.77 U	0.85 U	0.78 U	0.78 U
2,4-Dichlorophenol	0.48	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Diethyl phthalate	470	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Dimethyl phthalate +	380	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Di-n-butyl phthalate	2,300	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2,4-Dimethylphenol	9	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
2,4-Dinitrophenol**	0.2	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
2,4-Dinitrotoluene**	0.0008	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2,6-Dinitrotoluene**	0.0007	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Di-n-octyl phthalate	10,000	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachlorobenzene	11	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachlorobutadiene +	15	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachlorocyclopentadiene	2,200	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Hexachloroethane	2.6	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
Isophorone	8	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Methylnaphthalene +	39	0.39 U	0.39 U	0.43 U	1.6	0.39 U
2-Methylphenol	15	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
4-Methylphenol ++	0.66	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Nitroaniline	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
3-Nitroaniline	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
4-Nitroaniline	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
Nitrobenzene**	0.1	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2-Nitrophenol	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
4-Nitrophenol	--	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine**	0.00005	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
N-Nitrosodiphenylamine	5.6	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.018 U	0.016 U	0.016 U
Pentachlorophenol**	0.10	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
Phenol	100	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
1,2,4-Trichlorobenzene	53	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U
2,4,5-Trichlorophenol	26	0.77 U	0.77 U	0.85 U	0.78 U	0.78 U
2,4,6-Trichlorophenol **	0.07	0.39 U	0.39 U	0.43 U	0.39 U	0.39 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) **Values exceeded TACO screening level but were consistently non-detect so no values were shaded.

(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(7) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP40-002 7-8	SP40-003 14-15	SP43-001 2-3	SP43-002 3.5-4.5	SP43-003 11-12
PAHs (mg/kg)						
Acenaphthene	2,900	0.029 U	0.029 U	0.072	0.062	0.029 U
Acenaphthylene +	120	0.029 U	0.029 U	0.17	0.074	0.029 U
Anthracene	59,000	0.029 U	0.029 U	0.032 U	0.029	0.029 U
Benzo(a)anthracene	8	0.029 U	0.029 U	0.045	0.09	0.029 U
Benzo(b)fluoranthene	25	0.029 U	0.029 U	0.12	0.13	0.029 U
Benzo(k)fluoranthene	250	0.029 U	0.029 U	0.098	0.11	0.029 U
Benzo(g,h,i)perylene +	160,000	0.029 U	0.029 U	0.062	0.087	0.029 U
Benzo(a)pyrene	82	0.029 U	0.029 U	0.056	0.13	0.029 U
Chrysene	800	0.029 U	0.029 U	0.3	0.16	0.029 U
Dibenzo(a,h)anthracene	7.6	0.029 U	0.029 U	0.032 U	0.038	0.029 U
Fluoranthene	21,000	0.029 U	0.029 U	0.15	0.17	0.029 U
Fluorene	2,800	0.029 U	0.029 U	0.032 U	0.16	0.029 U
Indeno(1,2,3-cd)pyrene	69	0.029 U	0.029 U	0.043	0.076	0.029 U
Naphthalene	18	0.029 U	0.029 U	0.062	0.22	0.029 U
Phenanthrene +	1,100	0.029 U	0.029 U	0.19	0.38	0.029 U
Pyrene	21,000	0.029 U	0.029 U	0.14	0.088	0.029 U
PCBs (mg/kg)						
Aroclor 1016	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1221	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1232	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1242	--	0.093 U	0.094 U	0.1 U	0.28	0.097 U
Aroclor 1248	--	0.093 U	0.094 U	0.1 U	0.099 U	0.097 U
Aroclor 1254	--	0.19 U	0.19 U	0.21 U	0.26	0.19 U
Aroclor 1260	--	0.19 U	0.19 U	0.21 U	0.2 U	0.19 U
Total PCBs	--	0.845 U	0.850 U	0.920 U	1.136	0.865 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	1.1 UJ	1 UJ	1.3 UJ	NA	1 UJ
Arsenic*	120	10 J	8.3 J	9.5	NA	9 J
Barium*	1,800	88 J	87 J	170 J	NA	91 J
Beryllium*	130,000	1.1	1.1	1.2	NA	1.1
Cadmium*	590	0.56 U	0.52 U	0.85	NA	0.5 U
Chromium ***	21	16 J	19 J	16 J	NA	21 J
Copper*	330,000	33 J	28 J	73 J	NA	30 J
Lead**	--	19	17	69 J	NA	19
Mercury*	32	0.029 U	0.028 U	0.18	NA	0.03 U
Nickel*	14,000	36 J	28 J	20 J	NA	33 J
Selenium*	1.3	1.1 U	1 U	1.3 U	NA	1 U
Silver ***	39	1.1 U	1 U	1.3 U	NA	1 U
Thallium*	34	2.2	1.9	1.9	NA	1.9
Zinc*	32,000	52 J	45 J	100 J	NA	46 J
Total Cyanide*	120	0.32 U	0.27 U	0.35 U	NA	0.27 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) PCBs - Polychlorinated Biphenyls.
(6) J - Indicates an estimated value.
(7) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.
(8) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.
(9) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.
(10) NA - Not analyzed.
(11) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(12) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP44-001 0-0.5	SP44-002 6-7	SP44-003 12-13	SB45-001 0-0.5	SB46-001 10-12
TCL Volatiles (mg/kg)						
Acetone	16	0.079 U	0.082	0.069 U	0.065	0.036 U
Benzene	0.17	0.016 U	0.0089 U	0.014 U	0.12	0.0073 U
Bromodichloromethane	0.6	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Bromoform	0.8	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Bromomethane	1.2	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
2-Butanone	--	0.031 U	0.018 U	0.028 U	0.034	0.015 U
Carbon Disulfide	160	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Carbon Tetrachloride	0.33	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Chlorobenzene	6.5	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Chloroethane +	70	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
Chloroform	2.9	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Chloromethane +	0.68	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Dibromochloromethane	0.4	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,1-Dichloroethane	110	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,2-Dichloroethane	0.1	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,1-Dichloroethene	0.3	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
cis-1,2-Dichloroethene	1.1	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
trans-1,2-Dichloroethene	3.4	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,2-Dichloropropane	0.15	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
cis-1,3-Dichloropropene	0.02	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
trans-1,3-Dichloropropene	0.02	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Ethylbenzene	19	0.016 U	0.0089 U	0.014 U	0.37	0.0073 U
2-Hexanone +	1.3	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
4-Methyl-2-Pentanone	--	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
Methylene Chloride	0.2	0.031 U	0.018 U	0.028 U	0.019 U	0.015 U
Methyl tert-butyl ether	0.32	NA	NA	NA	NA	0.0073 U
Styrene	18	0.016 U	0.0089 U	0.014 U	0.014	0.0073 U
1,1,2,2-Tetrachloroethane +	3.3	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Tetrachloroethene	0.3	0.023	0.0089 U	0.014 U	0.0094 U	0.0073 U
Toluene	29	0.016 U	0.0089 U	0.014 U	0.025	0.0073 U
1,1,1-Trichloroethane	9.6	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
1,1,2-Trichloroethane	0.3	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Trichloroethene	0.3	0.016 U	0.0089 U	0.014 U	0.0094 U	0.0073 U
Vinyl Chloride	0.07	0.031 U	0.018 U	0.028 U	0.019 U	0.0073 U
m,p-Xylene*	150	0.016 U	0.0089 U	0.014 U	0.057	NA
o-Xylene*	150	0.016 U	0.0089 U	0.014 U	0.17	NA
Xylenes, Total	150	NA	NA	NA	NA	0.015 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(6) NA - Not analyzed.
(7) * The "total xylenes" screening level was used because it is more conservative.
(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP44-001 0-0.5	SP44-002 6-7	SP44-003 12-13	SB45-001 0-0.5	SB46-001 10-12
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Bis(2-chloroethyl)ether**	0.0004	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Bis(2-ethylhexyl)phthalate	31,000	9.7	0.4 U	0.39 U	2.1	0.43 U
4-Bromophenyl phenyl ether	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Butyl benzyl phthalate	930	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Carbazole	2.8	1.9 U	0.4 U	0.39 U	0.87	0.87
4-Chloro-3-methylphenol +	120	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4-Chloroaniline **	0.7	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Chloronaphthalene	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Chlorophenol **	1.5	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4-Chlorophenyl phenyl ether	--	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Dibenzofuran +	76	1.9 U	0.4 U	0.39 U	0.35 U	1.8
1,2-Dichlorobenzene	43	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
1,3-Dichlorobenzene + **	1.0	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
1,4-Dichlorobenzene	11	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
3,3´-Dichlorobenzidine**	0.033	3.9 U	0.79 U	0.77 U	0.69 U	0.86 U
2,4-Dichlorophenol **	0.48	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Diethyl phthalate	470	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Dimethyl phthalate +	380	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Di-n-butyl phthalate	2,300	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2,4-Dimethylphenol	9	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4,6-Dinitro-2-methylphenol	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
2,4-Dinitrophenol**	0.2	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
2,4-Dinitrotoluene**	0.0008	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
2,6-Dinitrotoluene**	0.0007	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
Di-n-octyl phthalate	10,000	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachlorobenzene	11	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachlorobutadiene +	15	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachlorocyclopentadiene	2,200	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Hexachloroethane	2.6	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
Isophorone	8	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Methylnaphthalene +	39	1.9 U	0.4 U	0.39 U	1.7	2.8
2-Methylphenol	15	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
4-Methylphenol ++	0.66	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2-Nitroaniline	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
3-Nitroaniline	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
4-Nitroaniline	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
Nitrobenzene**	0.1	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
2-Nitrophenol	--	9.4 U	1.9 U	1.9 U	1.7 U	0.43 U
4-Nitrophenol	--	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
N-Nitrosodi-n-propylamine**	0.00005	1.9 U	0.4 U	0.39 U	0.35 U	0.22 U
N-Nitrosodiphenylamine	5.6	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2, 2'-Oxybis(1-Chloropropane)	--	0.082 U	0.017 U	0.016 U	0.015 U	0.43 U
Pentachlorophenol**	0.10	9.4 U	1.9 U	1.9 U	1.7 U	2.1 U
Phenol	100	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
1,2,4-Trichlorobenzene	53	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U
2,4,5-Trichlorophenol	26	3.9 U	0.79 U	0.77 U	0.69 U	0.86 U
2,4,6-Trichlorophenol **	0.07	1.9 U	0.4 U	0.39 U	0.35 U	0.43 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) **Values exceeded TACO or non-TACO screening level but were consistently non-detect so no values were shaded.

(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(7) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP44-001 0-0.5	SP44-002 6-7	SP44-003 12-13	SB45-001 0-0.5	SB46-001 10-12
PAHs (mg/kg)						
Acenaphthene	2,900	0.15 U	0.03 U	0.029 U	0.74	4.9
Acenaphthylene +	120	0.15 U	0.03 U	0.029 U	0.65	0.73
Anthracene	59,000	0.16	0.03 U	0.029 U	1.9	6.4
Benzo(a)anthracene	8	0.15 U	0.03 U	0.029 U	2.5	5.8
Benzo(b)fluoranthene	25	0.78	0.03 U	0.029 U	2	4.5
Benzo(k)fluoranthene	250	0.81	0.03 U	0.029 U	1.9	4.1
Benzo(g,h,i)perylene +	160,000	1.1	0.03 U	0.029 U	1.3	2.7
Benzo(a)pyrene	82	0.45	0.03 U	0.029 U	2.4	5.9
Chrysene	800	0.83	0.03 U	0.029 U	3.9	5.4
Dibenzo(a,h)anthracene	7.6	0.25	0.03 U	0.029 U	0.37	0.83
Fluoranthene	21,000	0.45	0.03 U	0.029 U	4.1	13
Fluorene	2,800	0.15 U	0.03 U	0.029 U	1.2	3.8
Indeno(1,2,3-cd)pyrene	69	0.69	0.03 U	0.029 U	0.94	2.4
Naphthalene	18	0.15 U	0.03 U	0.029 U	1.8	6.5
Phenanthrene +	1,100	0.42	0.03 U	0.029 U	3.6	17
Pyrene	21,000	0.64	0.03 U	0.029 U	6.8	14
PCBs (mg/kg)						
Aroclor 1016	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1221	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1232	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1242	--	1.5	0.096 U	0.093 U	5.2 U	NA
Aroclor 1248	--	0.094 U	0.096 U	0.093 U	0.084 U	NA
Aroclor 1254	--	1	0.19 U	0.19 U	5.2 U	NA
Aroclor 1260	--	0.19 U	0.19 U	0.19 U	0.17 U	NA
Total PCBs	--	3.066	0.860 U	0.845 U	10.906 U	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	0.98 J	1.1 UJ	1.2 UJ	0.95 UJ	NA
Arsenic*	120	3.8	13 J	9.3 J	7.6	NA
Barium*	1,800	140 J	79 J	94 J	59 J	NA
Beryllium*	130,000	1.1	1.2	1.2	0.63	NA
Cadmium*	590	1.5	0.57 U	0.58 U	1.1	NA
Chromium ***	21	21 J	20 J	20 J	13 J	NA
Copper*	330,000	79 J	31 J	33 J	42 J	NA
Lead**	--	210 J	19	20	240 J	NA
Mercury*	32	0.38	0.03 U	0.026 U	0.3	NA
Nickel*	14,000	16 J	39 J	35 J	17 J	NA
Selenium*	1.3	0.94 U	1.1 U	1.2 U	0.95 U	NA
Silver ***	39	0.94 U	1.1 U	1.2 U	0.95 U	NA
Thallium*	34	1.3	1.8	2.3	0.95 U	NA
Zinc*	32,000	290 J	52 J	45 J	140 J	NA
Total Cyanide*	120	0.28 U	0.32 U	0.31 U	1.3	NA

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) PAHs - Polynuclear Aromatic Hydrocarbons.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) PCBs - Polychlorinated Biphenyls.

(6) J - Indicates an estimated value.

(7) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.

(8) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.

(9) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used. concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.

(10) NA - Not analyzed.

(11) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(12) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB46-002 16 -18	SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10	SB48-002 18 - 20
TCL Volatiles (mg/kg)						
Acetone	16	0.031 U	0.035 U	0.032 U	0.036 U	0.03 U
Benzene	0.17	0.0062 U	0.05	0.0065 U	0.0072 U	0.0059 U
Bromodichloromethane	0.6	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Bromoform	0.8	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Bromomethane	1.2	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
2-Butanone	--	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Carbon Disulfide	160	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Carbon Tetrachloride	0.33	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Chlorobenzene	6.5	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Chloroethane +	70	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Chloroform	2.9	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Chloromethane +	0.68	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Dibromochloromethane	0.4	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1-Dichloroethane	110	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,2-Dichloroethane	0.1	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1-Dichloroethene	0.3	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
cis-1,2-Dichloroethene	1.1	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
trans-1,2-Dichloroethene	3.4	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,2-Dichloropropane	0.15	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
cis-1,3-Dichloropropene	0.02	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
trans-1,3-Dichloropropene	0.02	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Ethylbenzene	19	0.0062 U	0.33	0.0065 U	0.0072 U	0.0059 U
2-Hexanone +	1.3	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
4-Methyl-2-Pentanone	--	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Methylene Chloride	0.2	0.012 U	0.014 U	0.013 U	0.014 U	0.012 U
Methyl tert-butyl ether	0.32	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Styrene	18	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1,2,2-Tetrachloroethane +	3.3	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Tetrachloroethene	0.3	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Toluene	29	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1,1-Trichloroethane	9.6	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
1,1,2-Trichloroethane	0.3	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Trichloroethene	0.3	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
Vinyl Chloride	0.07	0.0062 U	0.0071 U	0.0065 U	0.0072 U	0.0059 U
m,p-Xylene*	150	NA	NA	NA	NA	NA
o-Xylene*	150	NA	NA	NA	NA	NA
Xylenes, Total	150	0.012 U	0.26	0.013 U	0.014 U	0.012 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(4) -- Toxicity criteria not available for exposure route.

(5) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(6) NA - Not analyzed.

(7) * The "total xylenes" screening level was used because it is more conservative.

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB46-002 16 -18	SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10	SB48-002 18 - 20
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Bis(2-chloroethyl)ether**	0.0004	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Bis(2-ethylhexyl)phthalate	31,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Bromophenyl phenyl ether	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Butyl benzyl phthalate	930	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Carbazole	2.8	0.42 U	1.1	0.41 U	0.57	0.41 U
4-Chloro-3-methylphenol +	120	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Chloroaniline	0.7	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Chloronaphthalene	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Chlorophenol	1.5	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Dibenzofuran +	76	0.42 U	2.5	0.41 U	1.5	0.41 U
1,2-Dichlorobenzene	43	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
1,3-Dichlorobenzene +	1.0	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
1,4-Dichlorobenzene	11	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
3,3´-Dichlorobenzidine**	0.033	0.83 U	0.88 U	0.82 U	0.89 U	0.82 U
2,4-Dichlorophenol	0.48	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Diethyl phthalate	470	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Dimethyl phthalate +	380	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Di-n-butyl phthalate	2,300	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2,4-Dimethylphenol	9	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4,6-Dinitro-2-methylphenol	--	2 U	2.1 U	2 U	2.2 U	2 U
2,4-Dinitrophenol**	0.2	2 U	2.1 U	2 U	2.2 U	2 U
2,4-Dinitrotoluene**	0.0008	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
2,6-Dinitrotoluene**	0.0007	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
Di-n-octyl phthalate	10,000	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachlorobenzene	11	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachlorobutadiene +	15	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachlorocyclopentadiene	2,200	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Hexachloroethane	2.6	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Isophorone	8	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Methylnaphthalene +	39	0.42 U	27	0.41 U	2.5	1.1
2-Methylphenol	15	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Methylphenol ++	0.66	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2-Nitroaniline	--	2 U	2.1 U	2 U	2.2 U	2 U
3-Nitroaniline	--	2 U	2.1 U	2 U	2.2 U	2 U
4-Nitroaniline	--	2 U	2.1 U	2 U	2.2 U	2 U
Nitrobenzene**	0.1	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
2-Nitrophenol	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
4-Nitrophenol	--	2 U	2.1 U	2 U	2.2 U	2 U
N-Nitrosodi-n-propylamine**	0.00005	0.21 U	0.23 U	0.21 U	0.23 U	0.21 U
N-Nitrosodiphenylamine	5.6	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2, 2'-Oxybis(1-Chloropropane)	--	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
Pentachlorophenol**	0.10	2 U	2.1 U	2 U	2.2 U	2 U
Phenol	100	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
1,2,4-Trichlorobenzene	53	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U
2,4,5-Trichlorophenol	26	0.83 U	0.88 U	0.82 U	0.89 U	0.82 U
2,4,6-Trichlorophenol **	0.07	0.42 U	0.44 U	0.41 U	0.44 U	0.41 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) **Values exceeded TACO screening level but were consistently non-detect so no values were shaded.

(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(7) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).

(8) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration SB46-002 16 -18	SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10	SB48-002 18 - 20
PAHs (mg/kg)						
Acenaphthene	2,900	0.17	22	0.074	5.9	0.41
Acenaphthylene +	120	0.033	2.7	0.031 U	0.99	0.031 U
Anthracene	59,000	0.19	11	0.031 U	9.5	0.16
Benzo(a)anthracene	8	0.17	9	0.032	8.6	0.11
Benzo(b)fluoranthene	25	0.075	4.5	0.031 U	5.5	0.063
Benzo(k)fluoranthene	250	0.12	5.1	0.031 U	6.2	0.082
Benzo(g,h,i)perylene +	160,000	0.046	3.9	0.031 U	5.5	0.034
Benzo(a)pyrene	82	0.086	4.6	0.031 U	9.8	0.088
Chrysene	800	0.2	8	0.048	8.1	0.14
Dibenzo(a,h)anthracene	7.6	0.031 U	0.91	0.031 U	1.2	0.031 U
Fluoranthene	21,000	0.42	20	0.072	20	0.22
Fluorene	2,800	0.13	13	0.04	3.5	0.26
Indeno(1,2,3-cd)pyrene	69	0.035	2.5	0.031 U	4.2	0.031 U
Naphthalene	18	0.4	33	0.13	5.3	7.8
Phenanthrene +	1,100	0.6	43	0.12	21	0.52
Pyrene	21,000	0.52	26	0.088	22	0.21
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	--	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	NA	NA	NA	NA	NA
Arsenic*	120	NA	NA	NA	NA	NA
Barium*	1,800	NA	NA	NA	NA	NA
Beryllium*	130,000	NA	NA	NA	NA	NA
Cadmium*	590	NA	NA	NA	NA	NA
Chromium ***	21	NA	NA	NA	NA	NA
Copper*	330,000	NA	NA	NA	NA	NA
Lead**	--	NA	NA	NA	NA	NA
Mercury*	32	NA	NA	NA	NA	NA
Nickel*	14,000	NA	NA	NA	NA	NA
Selenium*	1.3	NA	NA	NA	NA	NA
Silver ***	39	NA	NA	NA	NA	NA
Thallium*	34	NA	NA	NA	NA	NA
Zinc*	32,000	NA	NA	NA	NA	NA
Total Cyanide*	120	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.
(8) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.
(9) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.
(10) NA - Not analyzed.
(11) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(12) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB49-001 8 - 10	SB49B-001 14 - 16	SB50-002 14 - 16	SB50-003 20 - 22	SB51-001 10 -12
TCL Volatiles (mg/kg)						
Acetone	16	0.029 U	0.031 U	1.9 U	0.037 UJ	0.03 U
Benzene	0.17	0.0059 U	0.0063 U	2.9	0.0073 UJ	3.7
Bromodichloromethane	0.6	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Bromoform	0.8	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Bromomethane	1.2	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
2-Butanone	--	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Carbon Disulfide	160	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Carbon Tetrachloride **	0.33	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Chlorobenzene	6.5	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Chloroethane +	70	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Chloroform	2.9	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Chloromethane +	0.68	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Dibromochloromethane	0.4	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1-Dichloroethane	110	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,2-Dichloroethane **	0.1	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1-Dichloroethene **	0.3	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
cis-1,2-Dichloroethene	1.1	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
trans-1,2-Dichloroethene	3.4	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,2-Dichloropropane **	0.15	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
cis-1,3-Dichloropropene **	0.02	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
trans-1,3-Dichloropropene **	0.02	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Ethylbenzene	19	0.0059 U	0.0063 U	30	0.56	5.8
2-Hexanone +	1.3	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
4-Methyl-2-Pentanone	--	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Methylene Chloride	0.2	0.012 U	0.013 U	0.75 U	0.015 UJ	0.012 U
Methyl tert-butyl ether **	0.32	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Styrene	18	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1,2,2-Tetrachloroethane +	3.3	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Tetrachloroethene **	0.3	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Toluene	29	0.0059 U	0.0063 U	0.38 U	0.018 J	0.0094
1,1,1-Trichloroethane	9.6	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
1,1,2-Trichloroethane **	0.3	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Trichloroethene **	0.3	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
Vinyl Chloride **	0.07	0.0059 U	0.0063 U	0.38 U	0.0073 UJ	0.006 U
m,p-Xylene*	150	NA	NA	NA	NA	NA
o-Xylene*	150	NA	NA	NA	NA	NA
Xylenes, Total	150	0.012 U	0.013 U	21	2.1 J	3.9

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) Shaded value exceeds Tier 1 screening level.
(5) J - Indicates an estimated value.
(6) -- Toxicity criteria not available for exposure route.
(7) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(8) NA - Not analyzed.
(9) * The "total xylenes" screening level was used because it is more conservative.
(10) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(11) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB49-001 8 - 10	SB49B-001 14 - 16	SB50-002 14 - 16	SB50-003 20 - 22	SB51-001 10 -12
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Bis(2-chloroethyl)ether**	0.0004	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Bis(2-ethylhexyl)phthalate	31,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Bromophenyl phenyl ether	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Butyl benzyl phthalate	930	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Carbazole	2.8	0.42 U	0.41 U	0.46 U	0.45 U	4.8
4-Chloro-3-methylphenol +	120	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Chloroaniline	0.7	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Chloronaphthalene	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Chlorophenol	1.5	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Dibenzofuran +	76	0.42 U	0.41 U	1.2	0.45 U	3.4
1,2-Dichlorobenzene	43	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
1,3-Dichlorobenzene +	1.0	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
1,4-Dichlorobenzene	11	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
3,3´-Dichlorobenzidine**	0.033	0.84 U	0.82 U	0.91 U	0.89 U	0.87 U
2,4-Dichlorophenol	0.48	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Diethyl phthalate	470	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Dimethyl phthalate +	380	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Di-n-butyl phthalate	2,300	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2,4-Dimethylphenol	9	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4,6-Dinitro-2-methylphenol	--	2 U	2 U	2.2 U	2.2 U	2.1 U
2,4-Dinitrophenol**	0.2	2 U	2 U	2.2 U	2.2 U	2.1 U
2,4-Dinitrotoluene**	0.0008	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
2,6-Dinitrotoluene**	0.0007	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
Di-n-octyl phthalate	10,000	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachlorobenzene	11	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachlorobutadiene +	15	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachlorocyclopentadiene	2,200	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Hexachloroethane	2.6	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Isophorone	8	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Methylnaphthalene +	39	0.42 U	0.41 U	7.5	0.45 U	52
2-Methylphenol	15	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Methylphenol ++	0.66	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2-Nitroaniline	--	2 U	2 U	2.2 U	2.2 U	2.1 U
3-Nitroaniline	--	2 U	2 U	2.2 U	2.2 U	2.1 U
4-Nitroaniline	--	2 U	2 U	2.2 U	2.2 U	2.1 U
Nitrobenzene**	0.1	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
2-Nitrophenol	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
4-Nitrophenol	--	2 U	2 U	2.2 U	2.2 U	2.1 U
N-Nitrosodi-n-propylamine**	0.00005	0.22 U	0.21 U	0.23 U	0.23 U	0.22 U
N-Nitrosodiphenylamine	5.6	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2, 2'-Oxybis(1-Chloropropane)	--	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
Pentachlorophenol**	0.10	2 U	2 U	2.2 U	2.2 U	2.1 U
Phenol	100	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
1,2,4-Trichlorobenzene	53	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U
2,4,5-Trichlorophenol	26	0.84 U	0.82 U	0.91 U	0.89 U	0.87 U
2,4,6-Trichlorophenol **	0.07	0.42 U	0.41 U	0.46 U	0.45 U	0.44 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) Shaded value exceeds Tier 1 screening level.

(6) **Values exceeded TACO screening level but were consistently non-detect so no values were shaded.

(7) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(8) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).

(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB49-001 8 - 10	SB49B-001 14 - 16	SB50-002 14 - 16	SB50-003 20 - 22	SB51-001 10 -12
PAHs (mg/kg)						
Acenaphthene	2,900	0.32	0.031 U	3	0.086	28
Acenaphthylene +	120	0.19	0.031 U	0.44	0.034 U	4.1
Anthracene	59,000	0.44	0.031 U	2.6	0.18	20
Benzo(a)anthracene	8	1	0.035	3.9	0.42	17
Benzo(b)fluoranthene	25	0.78	0.031 U	2.4	0.27	8.2
Benzo(k)fluoranthene	250	0.74	0.032	3.8	0.38	7.4
Benzo(g,h,i)perylene +	160,000	0.68	0.031 U	0.74	0.077	8
Benzo(a)pyrene	82	1	0.041	4.4	0.46	16
Chrysene	800	1	0.053	3.1	0.42	17
Dibenzo(a,h)anthracene	7.6	0.11	0.031 U	0.24	0.037	1.4
Fluoranthene	21,000	1.9	0.058	7.2	0.66	36
Fluorene	2,800	0.24	0.031 U	2.2	0.098	21
Indeno(1,2,3-cd)pyrene	69	0.55	0.031 U	0.89	0.098	6.2
Naphthalene	18	0.2	0.041	44	0.52	67
Phenanthrene +	1,100	1.3	0.079	8.7	0.46	78
Pyrene	21,000	2.1	0.078	6.4	0.55	50
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	--	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	NA	NA	NA	NA	NA
Arsenic*	120	NA	NA	NA	NA	NA
Barium*	1,800	NA	NA	NA	NA	NA
Beryllium*	130,000	NA	NA	NA	NA	NA
Cadmium*	590	NA	NA	NA	NA	NA
Chromium ***	21	NA	NA	NA	NA	NA
Copper*	330,000	NA	NA	NA	NA	NA
Lead**	--	NA	NA	NA	NA	NA
Mercury*	32	NA	NA	NA	NA	NA
Nickel*	14,000	NA	NA	NA	NA	NA
Selenium*	1.3	NA	NA	NA	NA	NA
Silver ***	39	NA	NA	NA	NA	NA
Thallium*	34	NA	NA	NA	NA	NA
Zinc*	32,000	NA	NA	NA	NA	NA
Total Cyanide*	120	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.
(8) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.
(9) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.
(10) NA - Not analyzed.
(11) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(12) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20
TCL Volatiles (mg/kg)							
Acetone	16	0.027 U	1.4 U	0.027 UJ	0.036 U	0.1	0.031 UJ
Benzene	0.17	0.0055 U	2.6	0.0089 J	0.0086	0.21	0.0062 UJ
Bromodichloromethane	0.6	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Bromoform	0.8	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Bromomethane	1.2	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
2-Butanone	--	0.011 U	0.55 U	0.011 UJ	0.015 U	0.023	0.012 UJ
Carbon Disulfide	160	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Carbon Tetrachloride	0.33	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Chlorobenzene	6.5	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Chloroethane +	70	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
Chloroform	2.9	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Chloromethane +	0.68	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Dibromochloromethane	0.4	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1-Dichloroethane	110	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,2-Dichloroethane **	0.1	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1-Dichloroethene	0.3	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
cis-1,2-Dichloroethene	1.1	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
trans-1,2-Dichloroethene	3.4	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,2-Dichloropropane **	0.15	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
cis-1,3-Dichloropropene **	0.02	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
trans-1,3-Dichloropropene **	0.02	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Ethylbenzene	19	0.0055 U	11	0.043 J	0.0073 U	1.2	0.0062 UJ
2-Hexanone +	1.3	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
4-Methyl-2-Pentanone	--	0.011 U	0.55 U	0.011 UJ	0.015 U	0.019 U	0.012 UJ
Methylene Chloride	0.2	0.011 U	0.55 U	0.011 UJ	0.018	0.035	0.026 J
Methyl tert-butyl ether	0.32	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Styrene	18	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1,2,2-Tetrachloroethane +	3.3	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Tetrachloroethene	0.3	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Toluene	29	0.0055 U	0.7	0.0097 J	0.0073 U	0.013	0.0062 UJ
1,1,1-Trichloroethane	9.6	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
1,1,2-Trichloroethane	0.3	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Trichloroethene	0.3	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
Vinyl Chloride **	0.07	0.0055 U	0.28 U	0.0054 UJ	0.0073 U	0.0095 U	0.0062 UJ
m,p-Xylene*	150	NA	NA	NA	NA	NA	NA
o-Xylene*	150	NA	NA	NA	NA	NA	NA
Xylenes, Total	150	0.024	9.8	0.055 J	0.015 U	1.7	0.012 UJ

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) Shaded value exceeds Tier 1 screening level.
(5) J - Indicates an estimated value.
(6) -- Toxicity criteria not available for exposure route.
(7) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(8) NA - Not analyzed.
(9) * The "total xylenes" screening level was used because it is more conservative.
(10) ** Several values exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(11) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20
TCL Semivolatiles (mg/kg)							
Bis(2-chloroethoxy)methane	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Bis(2-chloroethyl)ether**	0.0004	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Bis(2-ethylhexyl)phthalate	31,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Bromophenyl phenyl ether	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Butyl benzyl phthalate	930	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Carbazole	2.8	0.41 U	0.4 U	0.39 U	0.41 U	5.1	0.4 U
4-Chloro-3-methylphenol +	120	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Chloroaniline	0.7	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Chloronaphthalene	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Chlorophenol	1.5	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Chlorophenyl phenyl ether	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Dibenzofuran +	76	0.82	0.91	0.39 U	0.41 U	4.9	0.4 U
1,2-Dichlorobenzene	43	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
1,3-Dichlorobenzene +	1.0	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
1,4-Dichlorobenzene	11	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
3,3´-Dichlorobenzidine**	0.033	0.82 U	0.8 U	0.77 U	0.82 U	0.85 U	0.8 U
2,4-Dichlorophenol	0.48	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Diethyl phthalate	470	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Dimethyl phthalate +	380	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Di-n-butyl phthalate	2,300	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2,4-Dimethylphenol	9	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4,6-Dinitro-2-methylphenol	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
2,4-Dinitrophenol**	0.2	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
2,4-Dinitrotoluene**	0.0008	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
2,6-Dinitrotoluene**	0.0007	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
Di-n-octyl phthalate	10,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachlorobenzene	11	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachlorobutadiene +	15	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachlorocyclopentadiene	2,200	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachloroethane	2.6	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Isophorone	8	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Methylnaphthalene +	39	4.5	19	1.8	0.41 U	37	0.4 U
2-Methylphenol	15	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Methylphenol ++	0.66	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
3-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
4-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
Nitrobenzene**	0.1	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
2-Nitrophenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Nitrophenol	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
N-Nitrosodi-n-propylamine**	0.00005	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
N-Nitrosodiphenylamine	5.6	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Pentachlorophenol**	0.10	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
Phenol	100	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
1,2,4-Trichlorobenzene	53	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2,4,5-Trichlorophenol	26	0.82 U	0.8 U	0.77 U	0.82 U	0.85 U	0.8 U
2,4,6-Trichlorophenol **	0.07	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) Shaded value exceeds Tier 1 screening level.

(6) **Values exceeded TACO screening level but were consistently non-detect so no values were shaded.

(7) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(8) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).

(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20
PAHs (mg/kg)							
Acenaphthene	2,900	2.4	3.7	0.19	2	16	0.11
Acenaphthylene +	120	0.47	1	0.066	1.6	2.4	0.046
Anthracene	59,000	2.2	2.2	0.12	2.6	16	0.12
Benzo(a)anthracene	8	2.3	1.8	0.091	5.2	14	0.12
Benzo(b)fluoranthene	25	1.2	0.71	0.038	1.4	6.4	0.054
Benzo(k)fluoranthene	250	1.1	0.31	0.035	1.8	6.5	0.076
Benzo(g,h,i)perylene +	160,000	0.57	0.18	0.029 U	1	1.6	0.042
Benzo(a)pyrene	82	1.7	1.3	0.07	4.8	11	0.099
Chrysene	800	2	1.7	0.096	6.8	15	0.14
Dibenzo(a,h)anthracene	7.6	0.11	0.1	0.029 U	0.5	1.2	0.03 U
Fluoranthene	21,000	3.7	2.7	0.15	7.8	24	0.22
Fluorene	2,800	2.5	3.6	0.2	4	19	0.13
Indeno(1,2,3-cd)pyrene	69	0.59	0.35	0.029 U	0.92	1.8	0.031
Naphthalene	18	6.1	22	2.3	1.5	41	0.24
Phenanthrene +	1,100	7.6	11	0.65	14	57	0.48
Pyrene	21,000	4.2	4.5	0.22	12	27	0.27
PCBs (mg/kg)							
Aroclor 1016	--	NA	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA	NA
Total PCBs	--	NA	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)							
Antimony*	20	NA	NA	NA	NA	NA	NA
Arsenic*	120	NA	NA	NA	NA	NA	NA
Barium*	1,800	NA	NA	NA	NA	NA	NA
Beryllium*	130,000	NA	NA	NA	NA	NA	NA
Cadmium*	590	NA	NA	NA	NA	NA	NA
Chromium ***	21	NA	NA	NA	NA	NA	NA
Copper*	330,000	NA	NA	NA	NA	NA	NA
Lead**	--	NA	NA	NA	NA	NA	NA
Mercury*	32	NA	NA	NA	NA	NA	NA
Nickel*	14,000	NA	NA	NA	NA	NA	NA
Selenium*	1.3	NA	NA	NA	NA	NA	NA
Silver ***	39	NA	NA	NA	NA	NA	NA
Thallium*	34	NA	NA	NA	NA	NA	NA
Zinc*	32,000	NA	NA	NA	NA	NA	NA
Total Cyanide*	120	NA	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.
(8) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.
(9) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.
(10) NA - Not analyzed.
(11) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(12) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB54-001 8 - 10	SB54-002 14 - 16	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20
TCL Volatiles (mg/kg)						
Acetone	16	3.2 U	0.027 U	0.026	0.032 U	0.028 U
Benzene	0.17	5.7	0.0054 U	0.064	0.0064 U	0.0056 U
Bromodichloromethane **	0.6	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Bromoform	0.8	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Bromomethane **	1.2	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
2-Butanone	--	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Carbon Disulfide	160	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Carbon Tetrachloride **	0.33	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Chlorobenzene	6.5	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Chloroethane +	70	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Chloroform	2.9	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Chloromethane +	0.68	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Dibromochloromethane **	0.4	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,1-Dichloroethane	110	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,2-Dichloroethane **	0.1	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,1-Dichloroethene **	0.3	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
cis-1,2-Dichloroethene	1.1	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
trans-1,2-Dichloroethene	3.4	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,2-Dichloropropane **	0.15	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
cis-1,3-Dichloropropene **	0.02	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
trans-1,3-Dichloropropene **	0.02	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Ethylbenzene	19	25	0.0054 U	0.11	0.0064 U	0.0056 U
2-Hexanone +	1.3	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
4-Methyl-2-Pentanone	--	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Methylene Chloride	0.2	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U
Methyl tert-butyl ether **	0.32	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Styrene	18	0.64 U	0.0054 U	0.016	0.0064 U	0.0056 U
1,1,2,2-Tetrachloroethane +	3.3	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Tetrachloroethene **	0.3	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Toluene	29	0.84	0.0054 U	0.066	0.0064 U	0.0056 U
1,1,1-Trichloroethane	9.6	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
1,1,2-Trichloroethane **	0.3	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Trichloroethene **	0.3	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
Vinyl Chloride **	0.07	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U
m,p-Xylene*	150	NA	NA	NA	NA	NA
o-Xylene*	150	NA	NA	NA	NA	NA
Xylenes, Total	150	8.7	0.011 U	0.18	0.013 U	0.011 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) Shaded value exceeds Tier 1 screening level.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) ** Value exceeded TACO screening levels but were consistently non-detect, so no values were shaded.
(10) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB54-001 8 - 10	SB54-002 14 - 16	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Bis(2-chloroethyl)ether**	0.0004	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Bis(2-ethylhexyl)phthalate	31,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Bromophenyl phenyl ether	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Butyl benzyl phthalate	930	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Carbazole	2.8	0.51	0.4 U	0.39 U	0.4 U	0.4 U
4-Chloro-3-methylphenol +	120	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Chloroaniline	0.7	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Chloronaphthalene	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Chlorophenol	1.5	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Dibenzofuran +	76	1.9	0.4 U	0.39 U	0.4 U	0.4 U
1,2-Dichlorobenzene	43	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
1,3-Dichlorobenzene +	1.0	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
1,4-Dichlorobenzene	11	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
3,3´-Dichlorobenzidine**	0.033	0.84 U	0.79 U	0.79 U	0.81 U	0.81 U
2,4-Dichlorophenol	0.48	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Diethyl phthalate	470	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Dimethyl phthalate +	380	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Di-n-butyl phthalate	2,300	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2,4-Dimethylphenol	9	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4,6-Dinitro-2-methylphenol	--	2 U	1.9 U	1.9 U	2 U	2 U
2,4-Dinitrophenol**	0.2	2 U	1.9 U	1.9 U	2 U	2 U
2,4-Dinitrotoluene**	0.0008	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
2,6-Dinitrotoluene**	0.0007	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
Di-n-octyl phthalate	10,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachlorobenzene	11	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachlorobutadiene +	15	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachlorocyclopentadiene	2,200	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Hexachloroethane	2.6	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Isophorone	8	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Methylnaphthalene +	39	45	0.4 U	0.8	0.4 U	0.4 U
2-Methylphenol	15	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Methylphenol ++	0.66	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2 U
3-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2 U
4-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2 U
Nitrobenzene**	0.1	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
2-Nitrophenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
4-Nitrophenol	--	2 U	1.9 U	1.9 U	2 U	2 U
N-Nitrosodi-n-propylamine**	0.00005	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U
N-Nitrosodiphenylamine	5.6	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
Pentachlorophenol**	0.10	2 U	1.9 U	1.9 U	2 U	2 U
Phenol	100	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
1,2,4-Trichlorobenzene	53	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U
2,4,5-Trichlorophenol	26	0.84 U	0.79 U	0.79 U	0.81 U	0.81 U
2,4,6-Trichlorophenol **	0.07	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) -- Toxicity criteria not available for exposure route.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) **Values exceeded TACO screening level but were consistently non-detect so no values were shaded.
(7) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(8) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB54-001 8 - 10	SB54-002 14 - 16	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20
PAHs (mg/kg)						
Acenaphthene	2,900	12	0.046	0.078	0.03 U	0.031 U
Acenaphthylene +	120	4	0.03 U	0.089	0.03 U	0.031 U
Anthracene	59,000	7.4	0.046	0.099	0.03 U	0.031 U
Benzo(a)anthracene	8	5.4	0.037	0.098	0.03 U	0.031 U
Benzo(b)fluoranthene	25	2.6	0.03 U	0.054	0.03 U	0.031 U
Benzo(k)fluoranthene	250	2.1	0.03 U	0.05	0.03 U	0.031 U
Benzo(g,h,i)perylene +	160,000	1.8	0.03 U	0.033	0.03 U	0.031 U
Benzo(a)pyrene	82	4.8	0.034	0.092	0.03 U	0.031 U
Chrysene	800	5.3	0.045	0.1	0.03 U	0.031 U
Dibenzo(a,h)anthracene	7.6	0.6	0.03 U	0.029 U	0.03 U	0.031 U
Fluoranthene	21,000	9.6	0.062	0.16	0.03 U	0.031 U
Fluorene	2,800	9.3	0.049	0.15	0.03 U	0.031 U
Indeno(1,2,3-cd)pyrene	69	1.6	0.03 U	0.029 U	0.03 U	0.031 U
Naphthalene	18	110	0.26	0.95	0.03 U	0.031 U
Phenanthrene +	1,100	27	0.15	0.58	0.067	0.037
Pyrene	21,000	14	0.095	0.31	0.03 U	0.031 U
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	--	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	NA	NA	NA	NA	NA
Arsenic*	120	NA	NA	NA	NA	NA
Barium*	1,800	NA	NA	NA	NA	NA
Beryllium*	130,000	NA	NA	NA	NA	NA
Cadmium*	590	NA	NA	NA	NA	NA
Chromium ***	21	NA	NA	NA	NA	NA
Copper*	330,000	NA	NA	NA	NA	NA
Lead**	--	NA	NA	NA	NA	NA
Mercury*	32	NA	NA	NA	NA	NA
Nickel*	14,000	NA	NA	NA	NA	NA
Selenium*	1.3	NA	NA	NA	NA	NA
Silver ***	39	NA	NA	NA	NA	NA
Thallium*	34	NA	NA	NA	NA	NA
Zinc*	32,000	NA	NA	NA	NA	NA
Total Cyanide*	120	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.
(8) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.
(9) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.
(10) NA - Not analyzed.
(11) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(12) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB57-002 16 - 18	SB58-001 12 - 14	SB58-002 16 - 18	SB59-001 6 - 8	SB59-002 16 - 18
TCL Volatiles (mg/kg)						
Acetone	16	0.028 U	0.047 U	0.031 UJ	0.028 U	0.033 U
Benzene	0.17	0.0057 U	0.0094 U	0.0061 UJ	0.031	0.0067 U
Bromodichloromethane	0.6	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Bromoform	0.8	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Bromomethane	1.2	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
2-Butanone	--	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
Carbon Disulfide	160	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Carbon Tetrachloride	0.33	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Chlorobenzene	6.5	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Chloroethane +	70	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
Chloroform	2.9	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Chloromethane +	0.68	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Dibromochloromethane	0.4	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1-Dichloroethane	110	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,2-Dichloroethane	0.1	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1-Dichloroethene	0.3	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
cis-1,2-Dichloroethene	1.1	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
trans-1,2-Dichloroethene	3.4	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,2-Dichloropropane	0.15	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
cis-1,3-Dichloropropene	0.02	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
trans-1,3-Dichloropropene	0.02	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Ethylbenzene	19	0.0057 U	0.0094 U	0.0061 UJ	0.071	0.0067 U
2-Hexanone +	1.3	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
4-Methyl-2-Pentanone	--	0.011 U	0.019 U	0.012 UJ	0.011 U	0.013 U
Methylene Chloride	0.2	0.011 U	0.019 U	0.012 UJ	0.017	0.016
Methyl tert-butyl ether	0.32	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Styrene	18	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1,2,2-Tetrachloroethane +	3.3	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Tetrachloroethene	0.3	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Toluene	29	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1,1-Trichloroethane	9.6	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
1,1,2-Trichloroethane	0.3	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Trichloroethene	0.3	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
Vinyl Chloride	0.07	0.0057 U	0.0094 U	0.0061 UJ	0.0055 U	0.0067 U
m,p-Xylene*	150	NA	NA	NA	NA	NA
o-Xylene*	150	NA	NA	NA	NA	NA
Xylenes, Total	150	0.011 U	0.019 U	0.012 UJ	0.044	0.013 U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) J - Indicates an estimated value.
(5) -- Toxicity criteria not available for exposure route.
(6) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(7) NA - Not analyzed.
(8) * The "total xylenes" screening level was used because it is more conservative.
(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB57-002 16 - 18	SB58-001 12 - 14	SB58-002 16 - 18	SB59-001 6 - 8	SB59-002 16 - 18
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Bis(2-chloroethyl)ether**	0.0004	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Bromophenyl phenyl ether	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Butyl benzyl phthalate	930	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Carbazole	2.8	0.39 U	6.8	0.41 U	0.39 U	0.38 U
4-Chloro-3-methylphenol +	120	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Chloroaniline	0.7	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2-Chloronaphthalene	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2-Chlorophenol	1.5	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Dibenzofuran +	76	0.39 U	4.6	0.41 U	0.39 U	0.38 U
1,2-Dichlorobenzene	43	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
1,3-Dichlorobenzene +	1.0	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
1,4-Dichlorobenzene	11	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
3,3´-Dichlorobenzidine**	0.033	0.79 U	1.1 U	0.82 U	0.78 U	0.75 U
2,4-Dichlorophenol	0.48	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Diethyl phthalate	470	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Dimethyl phthalate +	380	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Di-n-butyl phthalate	2,300	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2,4-Dimethylphenol	9	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4,6-Dinitro-2-methylphenol	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
2,4-Dinitrophenol**	0.2	1.9 U	2.6 U	2 U	1.9 U	1.8 U
2,4-Dinitrotoluene**	0.0008	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
2,6-Dinitrotoluene**	0.0007	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
Di-n-octyl phthalate	10,000	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachlorobenzene	11	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachlorobutadiene +	15	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachlorocyclopentadiene	2,200	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Hexachloroethane	2.6	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Isophorone	8	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2-Methylnaphthalene +	39	0.39 U	3.8	0.41 U	0.39 U	0.38 U
2-Methylphenol	15	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Methylphenol ++	0.66	0.39 U	2.2	0.41 U	0.39 U	0.38 U
2-Nitroaniline	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
3-Nitroaniline	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
4-Nitroaniline	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
Nitrobenzene**	0.1	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
2-Nitrophenol	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
4-Nitrophenol	--	1.9 U	2.6 U	2 U	1.9 U	1.8 U
N-Nitrosodi-n-propylamine**	0.00005	0.2 U	0.28 U	0.21 U	0.2 U	0.19 U
N-Nitrosodiphenylamine	5.6	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	--	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
Pentachlorophenol**	0.10	1.9 U	2.6 U	2 U	1.9 U	1.8 U
Phenol	100	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
1,2,4-Trichlorobenzene	53	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U
2,4,5-Trichlorophenol	26	0.79 U	1.1 U	0.82 U	0.78 U	0.75 U
2,4,6-Trichlorophenol **	0.07	0.39 U	0.54 U	0.41 U	0.39 U	0.38 U

NOTES:

(1) mg/kg - milligrams per kilogram.

(2) TCL - Target compound list.

(3) -- Toxicity criteria not available for exposure route.

(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

(5) Shaded value exceeds Tier 1 screening level.

(6) **Values exceeded TACO screening level but were consistently non-detect so no values were shaded.

(7) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).

(8) ++ Acceptable detection limit used as screening level for non-TACO compound (Illinois EPA 2004).

(9) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 6 (Continued)
Tier 1 Screening: Soil Migration to Groundwater Route (Class II)
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB57-002 16 - 18	SB58-001 12 - 14	SB58-002 16 - 18	SB59-001 6 - 8	SB59-002 16 - 18
PAHs (mg/kg)						
Acenaphthene	2,900	0.03 U	4.3	0.072	0.029 U	0.028 U
Acenaphthylene +	120	0.03 U	0.45	0.031 U	0.029 U	0.028 U
Anthracene	59,000	0.03 U	11	0.079	0.029 U	0.028 U
Benzo(a)anthracene	8	0.03 U	14	0.065	0.029 U	0.028 U
Benzo(b)fluoranthene	25	0.03 U	8.5	0.038	0.029 U	0.028 U
Benzo(k)fluoranthene	250	0.03 U	9.8	0.038	0.029 U	0.028 U
Benzo(g,h,i)perylene +	160,000	0.03 U	3.2	0.031 U	0.029 U	0.028 U
Benzo(a)pyrene	82	0.03 U	12	0.059	0.029 U	0.028 U
Chrysene	800	0.037	12	0.061	0.029	0.028 U
Dibenzo(a,h)anthracene	7.6	0.03 U	1.6	0.031 U	0.029 U	0.028 U
Fluoranthene	21,000	0.056	27	0.14	0.029	0.028 U
Fluorene	2,800	0.03 U	6.2	0.088	0.029 U	0.028 U
Indeno(1,2,3-cd)pyrene	69	0.03 U	3.8	0.031 U	0.029 U	0.028 U
Naphthalene	18	0.054	4	0.39	0.087	0.028 U
Phenanthrene +	1,100	0.11	27	0.24	0.089	0.075
Pyrene	21,000	0.057	23	0.11	0.05	0.028 U
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Total PCBs	--	NA	NA	NA	NA	NA
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony*	20	NA	NA	NA	NA	NA
Arsenic*	120	NA	NA	NA	NA	NA
Barium*	1,800	NA	NA	NA	NA	NA
Beryllium*	130,000	NA	NA	NA	NA	NA
Cadmium*	590	NA	NA	NA	NA	NA
Chromium ***	21	NA	NA	NA	NA	NA
Copper*	330,000	NA	NA	NA	NA	NA
Lead**	--	NA	NA	NA	NA	NA
Mercury*	32	NA	NA	NA	NA	NA
Nickel*	14,000	NA	NA	NA	NA	NA
Selenium*	1.3	NA	NA	NA	NA	NA
Silver ***	39	NA	NA	NA	NA	NA
Thallium*	34	NA	NA	NA	NA	NA
Zinc*	32,000	NA	NA	NA	NA	NA
Total Cyanide*	120	NA	NA	NA	NA	NA

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Toxicity criteria not available for exposure route.
(5) Shaded value exceeds Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) * Toxicity criteria for metals and cyanide are only applicable to TCLP data; therefore, pH-dependent screening levels for Class II groundwater were used.
(8) ** A pH-dependent screening level was not available for lead; however, SPLP analysis was conducted on sample SP35-001 with a total lead concentration of 1,400 mg/kg. The SPLP lead result for SP35-001 is 0.02 mg/l and is below the Tier 1 Class II screening level of 0.1 mg/l.
(9) *** A pH-dependent screening level was not available for Class II groundwater; therefore, the pH-dependent screening level for Class I groundwater was used.
(10) NA - Not analyzed.
(11) + Screening level obtained from Table A: Soil Remediation Objectives for Residential Properties, Non-TACO Chemicals (Illinois EPA 2004).
(12) Soil samples (SP10-001, SP18B-002, SB21-002, SB22-001, SB23-003, SB24-002, SB26-001, SP40-001, SB45-002, SB50-001, SB57-001, and SB58-003) identified as source material are not included in the TACO Tier 1 evaluation.

Table 7
Tier 1 Screening: Class II Groundwater Ingestion Exposure Route
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/l)	Sample Location and Date Sampled/Concentration MW01-001 2/21/2002	MW02-001 2/21/2002	MW05-001 2/21/2002
TCL Volatiles (mg/l)				
Acetone	0.7	0.01 U	0.01 U	0.027
Benzene	0.025	0.21	0.005 U	0.005 U
Bromodichloromethane*	0.0002	0.005 U	0.005 U	0.005 U
Bromoform*	0.001	0.005 U	0.005 U	0.005 U
Bromomethane	---	0.01 U	0.01 U	0.01 U
2-Butanone	---	0.01 U	0.01 U	0.01 U
Carbon Disulfide	3.5	0.005 U	0.005 U	0.005 U
Carbon Tetrachloride	0.025	0.005 U	0.005 U	0.005 U
Chlorobenzene	0.5	0.005 U	0.005 U	0.005 U
Chloroethane +	14	0.01 U	0.01 U	0.01 U
Chloroform	0.001	0.005 U	0.005 U	0.005 U
Chloromethane +	0.14	0.005 U	0.005 U	0.005 U
Dibromochloromethane	0.14	0.005 U	0.005 U	0.005 U
1,1-Dichloroethane	3.5	0.005 U	0.005 U	0.005 U
1,2-Dichloroethane	0.025	0.005 U	0.005 U	0.005 U
1,1-Dichloroethene	0.035	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.2	0.005 U	0.005 U	0.005 U
trans-1,2-Dichloroethene	0.5	0.005 U	0.005 U	0.005 U
1,2-Dichloropropane	0.025	0.005 U	0.005 U	0.005 U
cis-1,3-Dichloropropene	0.005	0.005 U	0.005 U	0.005 U
trans-1,3-Dichloropropene	0.005	0.005 U	0.005 U	0.005 U
Ethylbenzene	1.0	0.005 U	0.005 U	0.005 U
2-Hexanone +	0.28	0.01 U	0.01 U	0.01 U
4-Methyl-2-Pentanone	---	0.01 U	0.01 U	0.01 U
Methylene Chloride	0.05	0.01 U	0.01 U	0.01 U
Styrene	0.5	0.005 U	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane +	0.42	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.025	0.005 U	0.005 U	0.005 U
Toluene	2.5	0.005 U	0.005 U	0.005 U
1,1,1-Trichloroethane	1.0	0.005 U	0.005 U	0.005 U
1,1,2-Trichloroethane	0.05	0.005 U	0.005 U	0.005 U
Trichloroethene	0.025	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.01	0.01 U	0.01 U	0.01 U
m,p-Xylene	---	0.005 U	0.005 U	0.0068
o-Xylene	---	0.005 U	0.005 U	0.009

NOTES:
(1) mg/l - milligrams per liter.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.
(4) Shaded value exceeds Tier 1 screening level.
(5) *Values exceeded TACO screening level but were consistently non-detect so no values were shaded.
(6) --- Toxicity criteria not available for groundwater ingestion exposure route (Illlinois EPA 2001).
(7) + Sceening level obtained from Groundwater Remediation Objectives for Chemicals Not Listed in TACO (Illlinois EPA 2004).

Table 7 (Continued)
Tier 1 Screening: Class II Groundwater Ingestion Exposure Route
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/l)	Sample Location and Date Sampled/Concentration MW01-001 2/21/2002	MW02-001 2/21/2002	MW05-001 2/21/2002
TCL Semivolatiles (mg/l)				
Bis(2-chloroethoxy)methane	---	0.01 U	0.01 U	0.01 U
Bis(2-chloroethyl)ether	0.01	0.01 U	0.01 U	0.01 U
Bis(2-ethylhexyl)phthalate	0.06	0.01 U	0.01 U	0.01 U
4-Bromophenyl phenyl ether	---	0.01 U	0.01 U	0.01 U
Butyl benzyl phthalate	7.0	0.01 U	0.01 U	0.01 U
Carbazole	---	0.01 U	0.01 U	0.01 U
4-Chloro-3-methylphenol +	2.45	0.02 U	0.02 U	0.02 U
4-Chloroaniline	0.028	0.01 U	0.01 U	0.01 U
2-Chloronaphthalene	---	0.01 U	0.01 U	0.01 U
2-Chlorophenol	0.175	0.01 U	0.01 U	0.01 U
4-Chlorophenyl phenyl ether	---	0.01 U	0.01 U	0.01 U
Dibenzofuran +	0.14	0.01 U	0.01 U	0.01 U
1,2-Dichlorobenzene	1.5	0.01 U	0.01 U	0.01 U
1,3-Dichlorobenzene +	0.0315	0.01 U	0.01 U	0.01 U
1,4-Dichlorobenzene	0.375	0.01 U	0.01 U	0.01 U
3,3-Dichlorobenzidine	0.1	0.02 U	0.02 U	0.02 U
2,4-Dichlorophenol	0.021	0.01 U	0.01 U	0.01 U
Diethyl phthalate	5.6	0.01 U	0.01 U	0.01 U
Dimethyl phthalate +	70	0.01 U	0.01 U	0.01 U
Di-n-butyl phthalate	3.5	0.01 U	0.01 U	0.01 U
2,4-Dimethylphenol	0.014	0.01 U	0.01 U	0.01 U
4,6-Dinitro-2-methylphenol	---	0.025 U	0.025 U	0.025 U
2,4-Dinitrophenol	0.14	0.025 U	0.025 U	0.025 U
2,4-Dinitrotoluene*	0.00002	0.01 U	0.01 U	0.01 U
2,6-Dinitrotoluene*	0.00031	0.01 U	0.01 U	0.01 U
Di-n-octyl phthalate	0.7	0.01 U	0.01 U	0.01 U
Hexachlorobenzene*	0.0003	0.01 U	0.01 U	0.01 U
Hexachlorobutadiene + **	0.007	0.01 U	0.01 U	0.01 U
Hexachlorocyclopentadiene	0.5	0.01 U	0.01 U	0.01 U
Hexachloroethane	0.035	0.01 U	0.01 U	0.01 U
Isophorone	1.4	0.01 U	0.01 U	0.01 U
2-Methylnaphthalene +	0.14	0.01 U	0.01 U	0.01 U
2-Methylphenol	0.35	0.01 U	0.01 U	0.01 U
4-Methylphenol +	0.035	0.01 U	0.01 U	0.01 U
2-Nitroaniline	---	0.025 U	0.025 U	0.025 U
3-Nitroaniline	---	0.025 U	0.025 U	0.025 U
4-Nitroaniline	---	0.02 U	0.02 U	0.02 U
Nitrobenzene*	0.0035	0.01 U	0.01 U	0.01 U
2-Nitrophenol	---	0.01 U	0.01 U	0.01 U
4-Nitrophenol	---	0.025 U	0.025 U	0.025 U
N-Nitrosodi-n-propylamine*	0.0018	0.01 U	0.01 U	0.01 U
2, 2'-oxybis(1-Chloropropane)	---	0.01 U	0.01 U	0.01 U
N-Nitrosodiphenylamine	0.016	0.01 U	0.01 U	0.01 U
Pentachlorophenol*	0.005	0.025 U	0.025 U	0.025 U
Phenol	0.1	0.01 U	0.01 U	0.01 U
1,2,4-Trichlorobenzene	0.7	0.01 U	0.01 U	0.01 U
2,4,5-Trichlorophenol	3.5	0.01 U	0.01 U	0.01 U
2,4,6-Trichlorophenol	0.05	0.01 U	0.01 U	0.01 U

NOTES:
(1) mg/l - milligrams per liter.
(2) TCL - Target compound list.
(3) --- Toxicity criteria not available for groundwater ingestion exposure route (Illlinois EPA 2001).
(4) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.
(5) *Values exceeded TACO screening level but were consistently non-detect so no values were shaded.
(6) + Sceening level obtained from Groundwater Remediation Objectives for Chemicals Not Listed in TACO (Illlinois EPA 2004).
(7) **Values exceeded non-TACO screening level but were consistently non-detect so no values were shaded.

Table 7 (Continued)
Tier 1 Screening: Class II Groundwater Ingestion Exposure Route
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Tier 1 Screening Level (mg/l)	Sample Location and Date Sampled/Concentration MW01-001 2/21/2002	MW02-001 2/21/2002	MW05-001 2/21/2002
PAHs (mg/l)				
Acenaphthene	2.1	0.04	0.002 U	0.002 U
Acenaphthylene +	1.05	0.002 U	0.002 U	0.002 U
Anthracene	10.5	0.002 U	0.002 U	0.002 U
Benzo(a)anthracene	0.00065	0.00024	0.00022	0.00076
Benzo(a)pyrene	0.002	0.00026	0.00024	0.00022
Benzo(b)fluoranthene	0.0009	0.00018 U	0.00018 U	0.0003
Benzo(g,h,i)perylene +	1.05	0.0001 U	0.0001 U	0.00012
Benzo(k)fluoranthene	0.00085	0.00017 U	0.00017 U	0.00022
Chrysene	0.0075	0.001 U	0.001 U	0.001 U
Dibenz(a,h)anthracene	0.0015	0.0001 U	0.0001 U	0.0001 U
Fluoranthene	1.4	0.002 U	0.002 U	0.002 U
Fluorene	1.4	0.0059	0.002 U	0.002 U
Indeno(1,2,3-cd)pyrene	0.00215	0.0001 U	0.0001 U	0.0001 U
Naphthalene	0.22	0.015	0.002	0.01
Phenanthrene +	1.05	0.002 U	0.002 U	0.0032
Pyrene	1.05	0.002 U	0.002 U	0.0024
PCBs (mg/l)				
Aroclor 1016	0.0025	0.0005 U	0.0005 U	0.0005 U
Aroclor 1221	0.0025	0.001 U	0.001 U	0.001 U
Aroclor 1232	0.0025	0.0005 U	0.0005 U	0.0005 U
Aroclor 1242	0.0025	0.0005 U	0.0005 U	0.0005 U
Aroclor 1248	0.0025	0.0005 U	0.0005 U	0.0005 U
Aroclor 1254	0.0025	0.0005 U	0.0005 U	0.0005 U
Aroclor 1260	0.0025	0.0005 U	0.0005 U	0.0005 U
Priority Pollutant Metals (mg/l)				
Antimony	0.024	0.01 U	0.01 U	0.01 U
Arsenic	0.2	0.01 U	0.01 U	0.14
Barium	2.0	0.099	0.05	1.9
Beryllium	0.5	0.005 U	0.005 U	0.018
Cadmium	0.05	0.005 U	0.005 U	0.005 U
Chromium	1.0	0.01 U	0.01 U	0.63
Copper	0.65	0.01 U	0.01 U	1.2
Lead	0.1	0.005 U	0.005 U	0.96
Mercury	0.01	0.00025 U	0.00025 U	0.0026
Nickel	2.0	0.01 U	0.026	1.1
Selenium	0.05	0.01 U	0.01 U	0.01 U
Silver	---	0.01 U	0.01 U	0.01 U
Thallium	0.02	0.01 U	0.01 U	0.024
Zinc	10	0.01 U	0.01 U	2.2
Total Cyanide	0.6	0.005 U	0.005 U	0.12

NOTES:
(1) mg/l - milligrams per liter.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) --- Toxicity criteria not available for groundwater ingestion exposure route (Illlinois EPA 2001).
(4) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.
(5) Shaded values exceed Tier 1 screening level.
(6) PCBs - Polychlorinated Biphenyls.
(7) + Sceening level obtained from Groundwater Remediation Objectives for Chemicals Not Listed in TACO (Illlinois EPA 2004).

Table 8
Potential Source Material Calculations for Soil Attenuation Capacity - Total Petroleum Hydrocarbon Results
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Parameter	Surface Soils (mg/kg)	Subsurface Soils (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration									
			SP10-001 0-2	SB18B-002 5-7	SB21-002 5-7	SB22-001 2-3	SB23-003 14-16	SB24-002 5-7	SB26-001 3-5	SB45-002 3-5	SB46-001 10 - 12	SB46-002 16 -18
TPH (mg/kg)												
TPH-Gasoline			1,700	5,800	340	920	9,100	300	1,300	510	26 U	24 U
TPH-Diesel			11,000	42,000	2,200	8,600	72,000	3,300	5,100	3,700	140	24 U
TPH-Oil			5,200	13,000	1,300	4,600	23,000	1,100	2,100	1,600	410	24 U
TOTAL TPH	6,000*	2,000*	**17,900**	**60,800**	**3,840**	**14,120**	**104,100**	**4,700**	**8,500**	**5,810**	**576**	**72** U

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TPH - Total Petroleum Hydrocarbons.
(3) * - Default natural organic carbon fraction presented in TACO, Section 742.215.
(4) Total TPH - Sum of TPH-Gasoline, TPH-Diesel and TPH-Oil.
(5) Shaded value exceeds default values.
(6) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.

Table 8 (Continued)
Potential Source Material Calculations for Soil Attenuation Capacity - Total Petroleum Hydrocarbon Results
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Parameter	Surface Soils (mg/kg)	Subsurface Soils (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration									
			SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10	SB48-002 18 - 20	SB49-001 8 - 10	SB49B-001 14 - 16	SB50-001 10 - 12	SB50-002 14 - 16	SB50-003 20 - 22	SB51-001 10 -12
TPH (mg/kg)												
TPH-Gasoline			27 U	25 U	25 U	24 U	25 U	22 U	140	110	26 U	26
TPH-Diesel			100	25 U	83	24 U	25 U	22 U	1,200	150	31	290
TPH-Oil			97	25 U	270	24 U	25 U	22 U	1,500	33	26 U	290
TOTAL TPH	6,000*	2,000*	**224**	**75 U**	**378**	**72 U**	**75 U**	**66 U**	**2,840**	**293**	**83**	**606**

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TPH - Total Petroleum Hydrocarbons.
(3) * - Default natural organic carbon fraction presented in TACO, Section 742.215.
(4) Total TPH - Sum of TPH-Gasoline, TPH-Diesel and TPH-Oil.
(5) Shaded value exceeds default values.
(6) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.

Table 8 (Continued)
Potential Source Material Calculations for Soil Attenuation Capacity - Total Petroleum Hydrocarbon Results
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Parameter	Surface Soils (mg/kg)	Subsurface Soils (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration									
			SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20	SB54-001 8 - 10	SB54-002 14 - 16	SB55-001 6 - 8	SB55-002 12 - 14
TPH (mg/kg)												
TPH-Gasoline			25 U	24	23 U	23 U	25 U	22 U	37	22 U	23 U	22 U
TPH-Diesel			25 U	420	23 U	400	1,000	22 U	250	22 U	23 U	22 U
TPH-Oil			30	330	23 U	670	890	22 U	140	22 U	27	22 U
TOTAL TPH	6,000*	2,000*	**80**	**774**	**69 U**	**1,093**	**1,915**	**66 U**	**427**	**66 U**	**73**	**66 U**

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TPH - Total Petroleum Hydrocarbons.
(3) * - Default natural organic carbon fraction presented in TACO, Section 742.215.
(4) Total TPH - Sum of TPH-Gasoline, TPH-Diesel and TPH-Oil.
(5) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.

Table 8 (Continued)
Potential Source Material Calculations for Soil Attenuation Capacity - Total Petroleum Hydrocarbon Results
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Parameter	Surface Soils (mg/kg)	Subsurface Soils (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration							
			SB56-001 18 - 20	SB57-001 10 - 12	SB57-002 16 - 18	SB58-001 12 - 14	SB58-002 16 - 18	SB58-003 8 - 10	SB59-001 6 - 8	SB59-002 16 - 18
TPH (mg/kg)										
TPH-Gasoline			23 U	29 U	24 U	31 U	23 U	43	23 U	22 U
TPH-Diesel			23 U	660	24 U	300	23 U	5,100	23 U	22 U
TPH-Oil			23 U	1,900	24 U	1,100	25	500	25	22 U
TOTAL TPH	6,000*	2,000*	**69 U**	**2,589**	**72 U**	**1,431**	**71**	**5,643**	**71**	**66 U**

NOTES:
(1) mg/kg - milligrams per kilogram.
(2) TPH - Total Petroleum Hydrocarbons.
(3) * - Default natural organic carbon fraction presented in TACO, Section 742.215.
(4) Total TPH - Sum of TPH-Gasoline, TPH-Diesel and TPH-Oil.
(5) Shaded value exceeds default values.
(6) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.

Table 9
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-001 1-2	SP02-001 2-3	SP03-001 2-3	SP05-001 2-3	SP06-001 2-3
TCL Volatiles (mg/kg)						
Acetone	100,000	0.099	0.17	0.051	0.067	0.073
Benzene	870	0.0097 U	0.055	0.0072 U	0.015	0.079
Bromodichloromethane	3,000	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
Bromoform	1,900	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
Bromomethane	3,200	0.019 U	0.024 U	0.014 U	0.024 U	0.025 U
2-Butanone	--	0.019 U	0.024 U	0.014 U	0.024 U	0.025 U
Carbon Disulfide	720	0.0097 U	0.023	0.0072 U	0.012 U	0.013 U
Carbon Tetrachloride	1,100	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
Chlorobenzene	680	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
Chloroethane	--	0.019 U	0.024 U	0.014 U	0.024 U	0.025 U
Chloroform	2,900	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
Chloromethane	--	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
Dibromochloromethane	1,300	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
1,1-Dichloroethane	1,700	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
1,2-Dichloroethane	1,800	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
1,1-Dichloroethene	1,500	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
cis-1,2-Dichloroethene	--	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
trans-1,2-Dichloroethene	--	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
1,2-Dichloropropane	1,100	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
cis-1,3-Dichloropropene	1,400	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
trans-1,3-Dichloropropene	1,400	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
Ethylbenzene	400	0.0097 U	0.044	0.0072 U	0.012 U	0.15
2-Hexanone	--	0.019 U	0.024 U	0.014 U	0.024 U	0.025 U
4-Methyl-2-Pentanone	--	0.019 U	0.024 U	0.014 U	0.024 U	0.025 U
Methylene	2,400	0.019 U	0.024 U	0.014 U	0.024 U	0.025 U
Styrene	1,500	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
1,1,2,2-Tetrachloroethane	--	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
Tetrachloroethene	240	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
Toluene	650	0.0097 U	0.036	0.0072 U	0.012 U	0.041
1,1,1-Trichloroethane	1,200	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
1,1,2-Trichloroethane	1,800	0.0097 U	0.012 U	0.0072 U	0.012 U	0.013 U
Trichloroethene	1,300	0.0097 U	0.021	0.0072 U	0.012 U	0.013 U
Vinyl Chloride	1,200	0.019 U	0.024 U	0.014 U	0.024 U	0.025 U
m,p-Xylene	420	0.0097 U	0.028	0.0072 U	0.012 U	0.11
o-Xylene	410	0.0097 U	0.025	0.0096	0.012 U	0.12
Subtotal:		0.5	0.8	0.3	0.6	1.0

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Soil saturation limits not available.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-001 1-2	SP02-001 2-3	SP03-001 2-3	SP05-001 2-3	SP06-001 2-3
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
Bis(2-chloroethyl)ether	3,300	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
Bis(2-ethylhexyl)phthalate	31,000	0.37 U	0.37 U	0.49	0.38 U	0.38 U
4-Bromophenyl phenyl ether	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
Butyl benzyl phthalate	930	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
Carbazole	--	0.37 U	0.52	2.9	0.67	2.2
4-Chloro-3-methylphenol	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
4-Chloroaniline	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
2-Chloronaphthalene	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
2-Chlorophenol	53,000	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
4-Chlorophenyl phenyl ether	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
Dibenzofuran	--	0.37 U	0.37 U	0.36 U	0.38 U	0.4
1,2-Dichlorobenzene	560	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
1,3-Dichlorobenzene	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
1,4-Dichlorobenzene	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
3,3´-Dichlorobenzidine	--	0.74 U	0.75 U	0.71 U	0.76 U	0.76 U
2,4-Dichlorophenol	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
Diethyl phthalate	2,000	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
Dimethyl phthalate	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
Di-n-butyl phthalate	2,300	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
2,4-Dimethylphenol	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
4,6-Dinitro-2-methylphenol	--	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
2,4-Dinitrophenol	--	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
2,4-Dinitrotoluene	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
2,6-Dinitrotoluene	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
Di-n-octyl phthalate	10,000	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
Hexachlorobenzene	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
Hexachlorobutadiene	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
Hexachlorocyclopentadiene	2,200	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
Hexachloroethane	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
Isophorone	4,600	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
2-Methylnaphthalene	--	0.37 U	0.85	0.57	0.54	2.7
2-Methylphenol	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
4-Methylphenol	--	0.37 U	0.56	0.36 U	0.38 U	0.38 U
2-Nitroaniline	--	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
3-Nitroaniline	--	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
4-Nitroaniline	--	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Nitrobenzene	1,000	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
2-Nitrophenol	--	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
4-Nitrophenol	--	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
N-Nitrosodi-n-propylamine	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
N-Nitrosodiphenylamine	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.015 U	0.016 U	0.016 U
Pentachlorophenol	--	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Phenol	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
1,2,4-Trichlorobenzene	3,200	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
2,4,5-Trichlorophenol	--	0.74 U	0.75 U	0.71 U	0.76 U	0.76 U
2,4,6-Trichlorophenol	--	0.37 U	0.37 U	0.36 U	0.38 U	0.38 U
Subtotal:		29.6	30.4	31.2	30.4	34.2

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Soil saturation limits not available.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-001 1-2	SP02-001 2-3	SP03-001 2-3	SP05-001 2-3	SP06-001 2-3
PAHs (mg/kg)						
Acenaphthene	--	0.037	0.45	0.69	0.84	1.4
Acenaphthylene	--	0.032	1.2	0.32	1.3	0.59
Anthracene	--	0.27	1.5	0.75	1.1	1.7
Benzo(a)anthracene	--	0.34	3.5	2.5	3	3.3
Benzo(b)fluoranthene	--	0.44	2.2	1.8	1.9	2
Benzo(k)fluoranthene	--	0.44	2.7	1.6	2.5	2.4
Benzo(g,h,i)perylene	--	0.31	2	0.94	1.2	1.4
Benzo(a)pyrene	--	0.32	3.1	2.3	3.3	3.3
Chrysene	--	0.71	4.1	2.5	3.5	4.2
Dibenzo(a,h)anthracene	--	0.16	0.81	0.39	0.55	0.71
Fluoranthene	--	1.4	6.2	4.1	4.3	7.2
Fluorene	--	0.067	0.63	0.65	0.77	1.5
Indeno(1,2,3-cd)pyrene	--	0.31	2	0.93	1.3	1.6
Naphthalene	--	0.36	0.84	0.75	0.22	4.2
Phenanthrene	--	0.64	3.8	3.7	2.9	7
Pyrene	--	1.5	8.6	4.5	6.6	6.1
PCBs (mg/kg)						
Aroclor 1016	--	0.09 U	0.09 U	0.084 U	0.092 U	0.092 U
Aroclor 1221	--	0.09 U	0.09 U	0.084 U	0.092 U	0.092 U
Aroclor 1232	--	0.09 U	0.09 U	0.084 U	0.092 U	0.092 U
Aroclor 1242	--	0.09 U	0.094	0.4	0.092 U	0.29
Aroclor 1248	--	0.09 U	0.09 U	0.084 U	0.092 U	0.092 U
Aroclor 1254	--	0.18 U	0.18 U	0.33	0.19 U	0.29
Aroclor 1260	--	0.18 U	0.18 U	0.16 U	0.19 U	0.18 U
Subtotal of PCBs:	50*	0.8	0.8	1.2	0.8	1.1
Subtotal:		8.1	44.4	29.6	36.1	49.7
Total Organic Content:	6,000**	38	76	61	67	85

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Soil saturation limits not available.
(4) PCBs - Polychlorinated Biphenyls.
(5) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(6) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(7) ** 6,000 mg/kg is the natural organic carbon fraction (foc) default value for surface soil.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP07-001 1-2	SP08-001 0-0.5	SB10-001 1-2	SP10-001 0-2	SP11-001 0-0.5
TCL Volatiles (mg/kg)						
Acetone	100,000	0.06 U	0.047 U	0.062	0.23 J	0.057 U
Benzene	870	0.012 U	0.0095 U	0.0092	15 J	0.011 U
Bromodichloromethane	3,000	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
Bromoform	1,900	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
Bromomethane	3,200	0.024 U	0.019 U	0.015 U	0.028 U	0.023 U
2-Butanone	--	0.024 U	0.019 U	0.015 U	0.056 J	0.023 U
Carbon Disulfide	720	0.04	0.0095 U	0.0074 U	0.014 U	0.011 U
Carbon Tetrachloride	1,100	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
Chlorobenzene	680	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
Chloroethane	--	0.024 U	0.019 U	0.015 U	0.028 U	0.023 U
Chloroform	2,900	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
Chloromethane	--	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
Dibromochloromethane	1,300	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
1,1-Dichloroethane	1,700	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
1,2-Dichloroethane	1,800	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
1,1-Dichloroethene	1,500	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
cis-1,2-Dichloroethene	--	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
trans-1,2-Dichloroethene	--	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
1,2-Dichloropropane	1,100	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
cis-1,3-Dichloropropene	1,400	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
trans-1,3-Dichloropropene	1,400	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
Ethylbenzene	400	0.013	0.0095 U	0.014	67 J	0.011 U
2-Hexanone	--	0.024 U	0.019 U	0.015 U	0.028 U	0.023 U
4-Methyl-2-Pentanone	--	0.024 U	0.019 U	0.015 U	0.028 U	0.023 U
Methylene	2,400	0.024 U	0.019 U	0.015 U	0.028 U	0.023 U
Styrene	1,500	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
1,1,2,2-Tetrachloroethane	--	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
Tetrachloroethene	240	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
Toluene	650	0.012	0.0095 U	0.0087	28 J	0.011 U
1,1,1-Trichloroethane	1,200	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
1,1,2-Trichloroethane	1,800	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
Trichloroethene	1,300	0.012 U	0.0095 U	0.0074 U	0.014 U	0.011 U
Vinyl Chloride	1,200	0.024 U	0.019 U	0.015 U	0.028 U	0.023 U
m,p-Xylene	420	0.016	0.0095 U	0.021	53 J	0.011 U
o-Xylene	410	0.012 U	0.0095 U	0.014	31 J	0.011 U
Subtotal:		0.6	0.4	0.4	194.8	0.5

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Soil saturation limits not available.
(5) J - Indicates an estimated value.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP07-001 1-2	SP08-001 0-0.5	SB10-001 1-2	SP10-001 0-2	SP11-001 0-0.5
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
Bis(2-chloroethyl)ether	3,300	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
Bis(2-ethylhexyl)phthalate	31,000	0.37 U	2.9	2.1	1.7 U	1.1
4-Bromophenyl phenyl ether	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
Butyl benzyl phthalate	930	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
Carbazole	--	0.47	0.41 U	1.1	1.7 U	0.38 U
4-Chloro-3-methylphenol	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
4-Chloroaniline	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
2-Chloronaphthalene	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
2-Chlorophenol	53,000	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
4-Chlorophenyl phenyl ether	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
Dibenzofuran	--	0.37 U	0.41 U	2	61	0.38 U
1,2-Dichlorobenzene	560	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
1,3-Dichlorobenzene	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
1,4-Dichlorobenzene	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
3,3´-Dichlorobenzidine	--	0.74 U	0.81 U	0.72 U	3.5 U	0.76 U
2,4-Dichlorophenol	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
Diethyl phthalate	2,000	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
Dimethyl phthalate	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
Di-n-butyl phthalate	2,300	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
2,4-Dimethylphenol	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
4,6-Dinitro-2-methylphenol	--	1.8 U	2 U	1.8 U	8.4 U	1.8 U
2,4-Dinitrophenol	--	1.8 U	2 U	1.8 U	8.4 U	1.8 U
2,4-Dinitrotoluene	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
2,6-Dinitrotoluene	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
Di-n-octyl phthalate	10,000	0.37 U	0.71	0.36 U	1.7 U	0.38 U
Hexachlorobenzene	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
Hexachlorobutadiene	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
Hexachlorocyclopentadiene	2,200	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
Hexachloroethane	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
Isophorone	4,600	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
2-Methylnaphthalene	--	0.4	0.41 U	27	1,200	1.1
2-Methylphenol	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
4-Methylphenol	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
2-Nitroaniline	--	1.8 U	2 U	1.8 U	8.4 U	1.8 U
3-Nitroaniline	--	1.8 U	2 U	1.8 U	8.4 U	1.8 U
4-Nitroaniline	--	1.8 U	2 U	1.8 U	8.4 U	1.8 U
Nitrobenzene	1,000	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
2-Nitrophenol	--	1.8 U	2 U	1.8 U	8.4 U	1.8 U
4-Nitrophenol	--	1.8 U	2 U	1.8 U	8.4 U	1.8 U
N-Nitrosodi-n-propylamine	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
N-Nitrosodiphenylamine	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.017 U	0.015 U	0.074 U	0.016 U
Pentachlorophenol	--	1.8 U	2 U	1.8 U	8.4 U	1.8 U
Phenol	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
1,2,4-Trichlorobenzene	3,200	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
2,4,5-Trichlorophenol	--	0.74 U	0.81 U	0.72 U	3.5 U	0.76 U
2,4,6-Trichlorophenol	--	0.37 U	0.41 U	0.36 U	1.7 U	0.38 U
Subtotal:		29.7	35.6	59.9	1,394.8	31.4

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Soil saturation limits not available.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP07-001 1-2	SP08-001 0-0.5	SB10-001 1-2	SP10-001 0-2	SP11-001 0-0.5
PAHs (mg/kg)						
Acenaphthene	--	0.28 U	0.031 U	2.4	260	1.1
Acenaphthylene	--	0.39	0.28	1.9	170	0.86
Anthracene	--	0.54	0.4	7.1	150	2.5
Benzo(a)anthracene	--	1.5	1.4	1.6	44	0.9
Benzo(b)fluoranthene	--	1.3	1.2	3.5	20	1.7
Benzo(k)fluoranthene	--	0.98	0.9	3.4	18	1.6
Benzo(g,h,i)perylene	--	0.77	0.9	3.6	15	0.62
Benzo(a)pyrene	--	1.6	1.7	3.9	24	1.8
Chrysene	--	1.6	1.5	9	140	3.1
Dibenzo(a,h)anthracene	--	0.28 U	0.33	1.2	9.7	0.3
Fluoranthene	--	2.5	1.7	11	130	3.7
Fluorene	--	0.28 U	0.078	6.9	140	1.3
Indeno(1,2,3-cd)pyrene	--	0.71	0.83	2.6	16	0.44
Naphthalene	--	0.28	0.041	10	580	1.5
Phenanthrene	--	2.1	1	24	490	6.5
Pyrene	--	2.8	2.1	14	200	7.8
PCBs (mg/kg)						
Aroclor 1016	--	0.091 U	0.099 U	0.09 U	0.083 U	0.092 U
Aroclor 1221	--	0.091 U	0.099 U	0.09 U	0.083 U	0.092 U
Aroclor 1232	--	0.091 U	0.099 U	0.09 U	0.083 U	0.092 U
Aroclor 1242	--	1.5	0.37	3.9	0.15	0.49
Aroclor 1248	--	0.091 U	0.099 U	0.09 U	0.083 U	0.092 U
Aroclor 1254	--	0.91 U	0.28	3.3	0.17 U	0.45
Aroclor 1260	--	0.18 U	0.2 U	0.18 U	0.17 U	0.18 U
Subtotal of PCBs:	50*	3.0	1.2	7.7	0.8	1.5
Subtotal:		20.9	15.6	113.8	2,407.5	37.2
Total Organic Content:	6,000**	51	52	174	3,997	69

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Soil saturation limits not available.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(7) ** 6,000 mg/kg is the natural organic carbon fraction (foc) default value for surface soil.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-001 1-2	SB14-001 1-2	SB15-001 0-0.5	SP16-001 2-3	SB17-001 1-2
TCL Volatiles (mg/kg)						
Acetone	100,000	0.062	0.051 U	0.037 U	0.053 U	0.06 U
Benzene	870	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
Bromodichloromethane	3,000	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
Bromoform	1,900	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
Bromomethane	3,200	0.025 U	0.02 U	0.015 U	0.021 U	0.024 U
2-Butanone	--	0.025 U	0.02 U	0.015 U	0.021 U	0.024 U
Carbon Disulfide	720	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
Carbon Tetrachloride	1,100	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
Chlorobenzene	680	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
Chloroethane	--	0.025 U	0.02 U	0.015 U	0.021 U	0.024 U
Chloroform	2,900	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
Chloromethane	--	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
Dibromochloromethane	1,300	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
1,1-Dichloroethane	1,700	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
1,2-Dichloroethane	1,800	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
1,1-Dichloroethene	1,500	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
cis-1,2-Dichloroethene	--	0.012 U	0.01 U	0.0074 U	0.053	0.012 U
trans-1,2-Dichloroethene	--	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
1,2-Dichloropropane	1,100	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
cis-1,3-Dichloropropene	1,400	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
trans-1,3-Dichloropropene	1,400	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
Ethylbenzene	400	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
2-Hexanone	--	0.025 U	0.02 U	0.015 U	0.021 U	0.024 U
4-Methyl-2-Pentanone	--	0.025 U	0.02 U	0.015 U	0.021 U	0.024 U
Methylene	2,400	0.025 U	0.02 U	0.015 U	0.021 U	0.024 U
Styrene	1,500	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
1,1,2,2-Tetrachloroethane	--	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
Tetrachloroethene	240	0.012 U	0.01 U	0.0074 U	0.1	0.012 U
Toluene	650	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
1,1,1-Trichloroethane	1,200	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
1,1,2-Trichloroethane	1,800	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
Trichloroethene	1,300	0.012 U	0.01 U	0.0074 U	0.017	0.012 U
Vinyl Chloride	1,200	0.025 U	0.02 U	0.015 U	0.021 U	0.024 U
m,p-Xylene	420	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
o-Xylene	410	0.012 U	0.01 U	0.0074 U	0.011 U	0.012 U
Subtotal:		0.6	0.5	0.3	0.6	0.6

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Soil saturation limits not available.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-001 1-2	SB14-001 1-2	SB15-001 0-0.5	SP16-001 2-3	SB17-001 1-2
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
Bis(2-chloroethyl)ether	3,300	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
Bis(2-ethylhexyl)phthalate	31,000	0.36 U	0.49	0.58	1.6	0.94
4-Bromophenyl phenyl ether	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
Butyl benzyl phthalate	930	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
Carbazole	--	0.36 U	0.35 U	0.4 U	0.75	0.36 U
4-Chloro-3-methylphenol	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
4-Chloroaniline	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
2-Chloronaphthalene	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
2-Chlorophenol	53,000	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
4-Chlorophenyl phenyl ether	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
Dibenzofuran	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
1,2-Dichlorobenzene	560	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
1,3-Dichlorobenzene	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
1,4-Dichlorobenzene	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
3,3´-Dichlorobenzidine	--	0.73 U	0.71 U	0.81 U	0.73 U	0.73 U
2,4-Dichlorophenol	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
Diethyl phthalate	2,000	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
Dimethyl phthalate	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
Di-n-butyl phthalate	2,300	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
2,4-Dimethylphenol	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
4,6-Dinitro-2-methylphenol	--	1.8 U	1.7 U	2 U	1.8 U	1.8 U
2,4-Dinitrophenol	--	1.8 U	1.7 U	2 U	1.8 U	1.8 U
2,4-Dinitrotoluene	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
2,6-Dinitrotoluene	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
Di-n-octyl phthalate	10,000	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
Hexachlorobenzene	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
Hexachlorobutadiene	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
Hexachlorocyclopentadiene	2,200	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
Hexachloroethane	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
Isophorone	4,600	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
2-Methylnaphthalene	--	0.86	0.35 U	0.4 U	0.64	0.36 U
2-Methylphenol	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
4-Methylphenol	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
2-Nitroaniline	--	1.8 U	1.7 U	2 U	1.8 U	1.8 U
3-Nitroaniline	--	1.8 U	1.7 U	2 U	1.8 U	1.8 U
4-Nitroaniline	--	1.8 U	1.7 U	2 U	1.8 U	1.8 U
Nitrobenzene	1,000	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
2-Nitrophenol	--	1.8 U	1.7 U	2 U	1.8 U	1.8 U
4-Nitrophenol	--	1.8 U	1.7 U	2 U	1.8 U	1.8 U
N-Nitrosodi-n-propylamine	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
N-Nitrosodiphenylamine	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
2, 2'-Oxybis(1-Chloropropane)	--	0.015 U	0.015 U	0.017 U	0.015 U	0.015 U
Pentachlorophenol	--	1.8 U	1.7 U	2 U	1.8 U	1.8 U
Phenol	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
1,2,4-Trichlorobenzene	3,200	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
2,4,5-Trichlorophenol	--	0.73 U	0.71 U	0.81 U	0.73 U	0.73 U
2,4,6-Trichlorophenol	--	0.36 U	0.35 U	0.4 U	0.36 U	0.36 U
Subtotal:		29.7	28.1	32.6	31.1	29.8

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Soil saturation limits not available.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-001 1-2	SB14-001 1-2	SB15-001 0-0.5	SP16-001 2-3	SB17-001 1-2
PAHs (mg/kg)						
Acenaphthene	--	0.16	0.15	0.031 U	0.5	0.036
Acenaphthylene	--	0.069	0.18	0.13	0.15	0.049
Anthracene	--	0.13	0.25	0.031 U	0.81	0.21
Benzo(a)anthracene	--	0.037	3.5	0.15	0.36	0.089
Benzo(b)fluoranthene	--	0.13	1.8	0.13	0.92	0.15
Benzo(k)fluoranthene	--	0.11	1.6	0.13	1.1	0.12
Benzo(g,h,i)perylene	--	0.2	0.66	0.17	0.81	0.034
Benzo(a)pyrene	--	0.094	3	0.2	0.75	0.069
Chrysene	--	0.26	3.2	0.21	2.3	0.087
Dibenzo(a,h)anthracene	--	0.084	0.35	0.057	0.28	0.028 U
Fluoranthene	--	0.21	4.2	0.24	1.8	0.12
Fluorene	--	0.15	0.15	0.031 U	0.44	0.046
Indeno(1,2,3-cd)pyrene	--	0.14	0.67	0.14	0.54	0.034
Naphthalene	--	0.83	0.19	0.031 U	0.64	0.051
Phenanthrene	--	0.34	0.3	0.17	2.2	0.21
Pyrene	--	0.28	11	0.33	2.7	0.18
PCBs (mg/kg)						
Aroclor 1016	--	0.09 U	0.085 U	0.096 U	0.088 U	0.088 U
Aroclor 1221	--	0.09 U	0.085 U	0.096 U	0.088 U	0.088 U
Aroclor 1232	--	0.09 U	0.085 U	0.096 U	0.088 U	0.088 U
Aroclor 1242	--	0.98	0.12	0.22	4.7	0.15
Aroclor 1248	--	0.09 U	0.085 U	0.096 U	0.088 U	0.088 U
Aroclor 1254	--	0.9 U	0.17 U	0.2 U	4.3	0.18 U
Aroclor 1260	--	0.18 U	0.17 U	0.2 U	0.18 U	0.18 U
Subtotal of PCBs:	50*	2.4	0.8	1.0	9.5	0.9
Subtotal:		5.6	32.0	3.2	25.8	2.4
Total Organic Content:	6,000**	36	61	36	58	33

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Soil saturation limits not available.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(7) ** 6,000 mg/kg is the natural organic carbon fraction (foc) default value for surface soil.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB18-001 1-2	SB19-001 1-2	SB20-001 0-0.5	SB21-001 1-2	SB22-001 2-3
TCL Volatiles (mg/kg)						
Acetone	100,000	0.062 U	0.05	0.12	0.036	0.11 J
Benzene	870	0.012 U	0.039	0.0084 U	0.077	13
Bromodichloromethane	3,000	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
Bromoform	1,900	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
Bromomethane	3,200	0.025 U	0.016 U	0.017 U	0.013 U	0.017 UJ
2-Butanone	--	0.025 U	0.016 U	0.017 U	0.013 U	0.017 UJ
Carbon Disulfide	720	0.012 U	0.0081 U	0.011	0.0065 U	0.034 J
Carbon Tetrachloride	1,100	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
Chlorobenzene	680	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
Chloroethane	--	0.025 U	0.016 U	0.017 U	0.013 U	0.017 UJ
Chloroform	2,900	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
Chloromethane	--	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
Dibromochloromethane	1,300	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
1,1-Dichloroethane	1,700	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
1,2-Dichloroethane	1,800	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
1,1-Dichloroethene	1,500	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
cis-1,2-Dichloroethene	--	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
trans-1,2-Dichloroethene	--	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
1,2-Dichloropropane	1,100	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
cis-1,3-Dichloropropene	1,400	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
trans-1,3-Dichloropropene	1,400	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
Ethylbenzene	400	0.012 U	0.22	0.014	0.12	120
2-Hexanone	--	0.025 U	0.016 U	0.017 U	0.013 U	0.017 UJ
4-Methyl-2-Pentanone	--	0.025 U	0.016 U	0.017 U	0.013 U	0.017 UJ
Methylene	2,400	0.025 U	0.016 U	0.017 U	0.013 U	0.017 UJ
Styrene	1,500	0.012 U	0.0081 U	0.0084 U	0.0065 U	15
1,1,2,2-Tetrachloroethane	--	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
Tetrachloroethene	240	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
Toluene	650	0.012 U	0.064	0.0097	0.018	74
1,1,1-Trichloroethane	1,200	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
1,1,2-Trichloroethane	1,800	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
Trichloroethene	1,300	0.012 U	0.0081 U	0.0084 U	0.0065 U	0.0085 UJ
Vinyl Chloride	1,200	0.025 U	0.016 U	0.017 U	0.013 U	0.017 UJ
m,p-Xylene	420	0.012 U	0.2	0.031	0.034	180
o-Xylene	410	0.012 U	0.12	0.011	0.036	110
Subtotal:		0.6	1.0	0.5	0.6	512.4

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Soil saturation limits not available.
(5) J - Indicates an estimated value.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB18-001 1-2	SB19-001 1-2	SB20-001 0-0.5	SB21-001 1-2	SB22-001 2-3
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
Bis(2-chloroethyl)ether	3,300	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
Bis(2-ethylhexyl)phthalate	31,000	1.2	0.63	2.7	0.59 J	1.8 U
4-Bromophenyl phenyl ether	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
Butyl benzyl phthalate	930	0.35 U	0.36 U	0.58	0.38 U	1.8 U
Carbazole	--	0.35 U	3.2	0.53	0.91 J	7.3 J
4-Chloro-3-methylphenol	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
4-Chloroaniline	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
2-Chloronaphthalene	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
2-Chlorophenol	53,000	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
4-Chlorophenyl phenyl ether	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
Dibenzofuran	--	0.35 U	0.94	0.38 U	0.9 J	45 J
1,2-Dichlorobenzene	560	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
1,3-Dichlorobenzene	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
1,4-Dichlorobenzene	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
3,3´-Dichlorobenzidine	--	0.7 U	0.72 U	0.75 U	0.75 U	3.7 U
2,4-Dichlorophenol	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
Diethyl phthalate	2,000	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
Dimethyl phthalate	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
Di-n-butyl phthalate	2,300	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
2,4-Dimethylphenol	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
4,6-Dinitro-2-methylphenol	--	1.7 U	1.7 U	1.8 U	1.8 U	8.9 U
2,4-Dinitrophenol	--	1.7 U	1.7 U	1.8 U	1.8 U	8.9 U
2,4-Dinitrotoluene	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
2,6-Dinitrotoluene	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
Di-n-octyl phthalate	10,000	1.6	0.36 U	0.38 U	0.38 U	1.8 U
Hexachlorobenzene	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
Hexachlorobutadiene	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
Hexachlorocyclopentadiene	2,200	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
Hexachloroethane	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
Isophorone	4,600	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
2-Methylnaphthalene	--	0.47	20	0.59	2.3 J	920 J
2-Methylphenol	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
4-Methylphenol	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
2-Nitroaniline	--	1.7 U	1.7 U	1.8 U	1.8 U	8.9 U
3-Nitroaniline	--	1.7 U	1.7 U	1.8 U	1.8 U	8.9 U
4-Nitroaniline	--	1.7 U	1.7 U	1.8 U	1.8 U	8.9 U
Nitrobenzene	1,000	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
2-Nitrophenol	--	1.7 U	1.7 U	1.8 U	1.8 U	8.9 U
4-Nitrophenol	--	1.7 U	1.7 U	1.8 U	1.8 U	8.9 U
N-Nitrosodi-n-propylamine	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
N-Nitrosodiphenylamine	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
2, 2'-Oxybis(1-Chloropropane)	--	0.015 U	0.015 U	0.016 U	0.38 U	1.8 U
Pentachlorophenol	--	1.7 U	1.7 U	1.8 U	1.8 U	8.9 U
Phenol	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
1,2,4-Trichlorobenzene	3,200	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
2,4,5-Trichlorophenol	--	0.7 U	0.72 U	0.75 U	0.75 U	3.7 U
2,4,6-Trichlorophenol	--	0.35 U	0.36 U	0.38 U	0.38 U	1.8 U
Subtotal:		30.2	51.7	32.9	33.5	1,113.9

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Soil saturation limits not available.
(5) J - Indicates an estimated value.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB18-001 1-2	SB19-001 1-2	SB20-001 0-0.5	SB21-001 1-2	SB22-001 2-3
PAHs (mg/kg)						
Acenaphthene	--	0.19	3.1	0.31	3.3 J	110 J
Acenaphthylene	--	0.12	2.3	0.19	2.5 J	68 J
Anthracene	--	0.67	3.1	0.78	5 J	94 J
Benzo(a)anthracene	--	0.31	1.4	0.26	1.6 J	18 J
Benzo(b)fluoranthene	--	0.57	3.4	2	3.1 J	15 J
Benzo(k)fluoranthene	--	0.6	3	1.9	3.5 J	17 J
Benzo(g,h,i)perylene	--	0.8	3	0.89	3.7 J	12 J
Benzo(a)pyrene	--	0.41	2.7	0.67	4 J	14 U
Chrysene	--	1.7	5.4	1.4	5.6 J	95 J
Dibenzo(a,h)anthracene	--	0.25	1.3	0.3	1.1 J	4.8 J
Fluoranthene	--	1.2	7.4	2.4	8.1 J	72 J
Fluorene	--	0.3	3.2	0.31	3.6 J	130 J
Indeno(1,2,3-cd)pyrene	--	0.52	2.5	0.62	2.5 J	8.7 J
Naphthalene	--	0.42	13	0.47	2.4 J	600 J
Phenanthrene	--	1.9	9.7	2.5	13 J	350 J
Pyrene	--	1.8	8.9	1.9	14 J	150 J
PCBs (mg/kg)						
Aroclor 1016	--	0.085 U	0.087 U	0.091 U	0.091 U	0.089 U
Aroclor 1221	--	0.085 U	0.087 U	0.091 U	0.091 U	0.089 U
Aroclor 1232	--	0.085 U	0.087 U	0.091 U	0.091 U	0.089 U
Aroclor 1242	--	1.9	0.55	1.3	0.1	0.13
Aroclor 1248	--	0.085 U	0.087 U	0.091 U	0.091 U	0.089 U
Aroclor 1254	--	1.6	0.52	0.91 U	0.18 U	0.18 U
Aroclor 1260	--	0.17 U	0.17 U	0.18 U	0.18 U	0.18 U
Subtotal of PCBs:	50*	4.0	1.6	2.8	0.8	0.8
Subtotal:		15.8	75.0	19.7	77.8	1,759.3
Total Organic Content:	6,000**	47	128	53	112	3,386

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Soil saturation limits not available.
(4) J - Indicates an estimated value.
(5) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(6) PCBs - Polychlorinated Biphenyls.
(7) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(8) ** 6,000 mg/kg is the natural organic carbon fraction (foc) default value for surface soil.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB23-001 1-2	SB24-001 1-2	SB25-001 1-2	SB28-001 2-3	SB31-001 2-3
TCL Volatiles (mg/kg)						
Acetone	100,000	0.056 U	0.056 U	0.12	0.093	0.03
Benzene	870	0.011 U	0.011 U	1.5	0.041	0.024
Bromodichloromethane	3,000	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
Bromoform	1,900	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
Bromomethane	3,200	0.022 U	0.022 U	0.018 U	0.017 U	0.0084 U
2-Butanone	--	0.022 U	0.022 U	0.026	0.017 U	0.0084 U
Carbon Disulfide	720	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
Carbon Tetrachloride	1,100	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
Chlorobenzene	680	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
Chloroethane	--	0.022 U	0.022 U	0.018 U	0.017 U	0.0084 U
Chloroform	2,900	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
Chloromethane	--	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
Dibromochloromethane	1,300	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
1,1-Dichloroethane	1,700	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
1,2-Dichloroethane	1,800	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
1,1-Dichloroethene	1,500	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
cis-1,2-Dichloroethene	--	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
trans-1,2-Dichloroethene	--	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
1,2-Dichloropropane	1,100	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
cis-1,3-Dichloropropene	1,400	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
trans-1,3-Dichloropropene	1,400	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
Ethylbenzene	400	0.011 U	0.016	2.8	0.059	0.038
2-Hexanone	--	0.022 U	0.022 U	0.018 U	0.017 U	0.0084 U
4-Methyl-2-Pentanone	--	0.022 U	0.022 U	0.018 U	0.017 U	0.0084 U
Methylene	2,400	0.022 U	0.022 U	0.018 U	0.017 U	0.0084 U
Styrene	1,500	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
1,1,2,2-Tetrachloroethane	--	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
Tetrachloroethene	240	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
Toluene	650	0.011 U	0.011 U	0.03	0.0087 U	0.032
1,1,1-Trichloroethane	1,200	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
1,1,2-Trichloroethane	1,800	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
Trichloroethene	1,300	0.011 U	0.011 U	0.0091 U	0.0087 U	0.0042 U
Vinyl Chloride	1,200	0.022 U	0.022 U	0.018 U	0.017 U	0.0084 U
m,p-Xylene	420	0.011 U	0.011 U	0.068	0.012	0.047
o-Xylene	410	0.011 U	0.011 U	0.72	0.015	0.029
Subtotal:		0.5	0.5	5.6	0.5	0.4

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Soil saturation limits not available.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB23-001 1-2	SB24-001 1-2	SB25-001 1-2	SB28-001 2-3	SB31-001 2-3
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
Bis(2-chloroethyl)ether	3,300	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
Bis(2-ethylhexyl)phthalate	31,000	2.1	1.7 U	0.36 U	0.45	0.33 U
4-Bromophenyl phenyl ether	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
Butyl benzyl phthalate	930	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
Carbazole	--	1.8 U	4.1	1.9	0.39 U	0.33 U
4-Chloro-3-methylphenol	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
4-Chloroaniline	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
2-Chloronaphthalene	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
2-Chlorophenol	53,000	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
4-Chlorophenyl phenyl ether	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
Dibenzofuran	--	1.8 U	1.7 U	0.84	0.5	0.33 U
1,2-Dichlorobenzene	560	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
1,3-Dichlorobenzene	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
1,4-Dichlorobenzene	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
3,3´-Dichlorobenzidine	--	3.7 U	3.5 U	0.72 U	0.78 U	0.33 U
2,4-Dichlorophenol	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
Diethyl phthalate	2,000	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
Dimethyl phthalate	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
Di-n-butyl phthalate	2,300	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
2,4-Dimethylphenol	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
4,6-Dinitro-2-methylphenol	--	8.9 U	8.4 U	1.7 U	1.9 U	1.7 U
2,4-Dinitrophenol	--	8.9 U	8.4 U	1.7 U	1.9 U	1.7 U
2,4-Dinitrotoluene	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
2,6-Dinitrotoluene	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
Di-n-octyl phthalate	10,000	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
Hexachlorobenzene	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
Hexachlorobutadiene	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
Hexachlorocyclopentadiene	2,200	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
Hexachloroethane	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
Isophorone	4,600	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
2-Methylnaphthalene	--	1.8 U	1.7 U	4.1	1.1	0.33 U
2-Methylphenol	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
4-Methylphenol	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
2-Nitroaniline	--	8.9 U	8.4 U	1.7 U	1.9 U	1.7 U
3-Nitroaniline	--	8.9 U	8.4 U	1.7 U	1.9 U	1.7 U
4-Nitroaniline	--	8.9 U	8.4 U	1.7 U	1.9 U	1.7 U
Nitrobenzene	1,000	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
2-Nitrophenol	--	8.9 U	8.4 U	1.7 U	1.9 U	1.7 U
4-Nitrophenol	--	8.9 U	8.4 U	1.7 U	1.9 U	1.7 U
N-Nitrosodi-n-propylamine	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
N-Nitrosodiphenylamine	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
2, 2'-Oxybis(1-Chloropropane)	--	0.078 U	0.073 U	0.015 U	0.39 U	0.33 U
Pentachlorophenol	--	8.9 U	8.4 U	1.7 U	1.9 U	1.7 U
Phenol	--	1.8 U	1.7 U	0.36 U	0.39 U	15
1,2,4-Trichlorobenzene	3,200	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
2,4,5-Trichlorophenol	--	3.7 U	3.5 U	0.72 U	0.78 U	0.66 U
2,4,6-Trichlorophenol	--	1.8 U	1.7 U	0.36 U	0.39 U	0.33 U
Subtotal:		145.6	139.6	34.1	32.5	41.8

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Soil saturation limits not available.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB23-001 1-2	SB24-001 1-2	SB25-001 1-2	SB28-001 2-3	SB31-001 2-3
PAHs (mg/kg)						
Acenaphthene	--	2.1	0.63	8.3	1.7	0.44
Acenaphthylene	--	5	0.34	6.1	1.4	0.13 U
Anthracene	--	4.1	2.1	8.1	3.5	0.7
Benzo(a)anthracene	--	5.9	0.29	8	1.1	0.2
Benzo(b)fluoranthene	--	3.1	1.5	4	1.8	0.84
Benzo(k)fluoranthene	--	3.2	1.3	3.3	1.9	0.48
Benzo(g,h,i)perylene	--	1.6	1.5	2.3	3	1.5
Benzo(a)pyrene	--	5	1.7	5.1	2.6	0.91
Chrysene	--	6.6	3.6	9.1	3.8	1.5
Dibenzo(a,h)anthracene	--	1.4 U	0.72	0.84	0.89	0.13 U
Fluoranthene	--	9.4	6.4	16	0.051	0.67
Fluorene	--	2.4	0.67	7	1.1	0.53
Indeno(1,2,3-cd)pyrene	--	1.4 U	1.4	2.1	1.9	1.1
Naphthalene	--	1.8	0.65	6.7	1.4	0.68
Phenanthrene	--	10	5.4	30	0.038	2
Pyrene	--	14	7	24	0.097	1.1
PCBs (mg/kg)						
Aroclor 1016	--	0.089 U	0.087 U	0.086 U	0.093 U	0.083 U
Aroclor 1221	--	0.089 U	0.087 U	0.086 U	0.093 U	0.083 U
Aroclor 1232	--	0.089 U	0.087 U	0.086 U	0.093 U	0.083 U
Aroclor 1242	--	0.95	1.1	0.086 U	0.34	3.7
Aroclor 1248	--	0.089 U	0.087 U	0.086 U	0.093 U	0.083 U
Aroclor 1254	--	0.72	0.9	0.17 U	0.2	1.8
Aroclor 1260	--	0.18 U	0.17 U	0.17 U	0.19 U	0.17 U
Subtotal of PCBs:	50*	2.2	2.5	0.8	1.1	6.0
Subtotal:		79.2	37.7	141.7	27.4	18.9
Total Organic Content:	6,000**	225	178	181	60	61

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Soil saturation limits not available.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(7) ** 6,000 mg/kg is the natural organic carbon fraction (foc) default value for surface soil.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB32-001 2-3	SB33-001 0-0.5	SP34-001 0-0.5	SP35-001 1-2	SP37-001 1-2
TCL Volatiles (mg/kg)						
Acetone	100,000	0.067 U	0.042 U	0.041 U	0.14	0.044 U
Benzene	870	5.2	0.0084 U	0.0083 U	0.0071 U	0.0088 U
Bromodichloromethane	3,000	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
Bromoform	1,900	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
Bromomethane	3,200	0.027 U	0.017 U	0.017 U	0.014 U	0.018 U
2-Butanone	--	0.027 U	0.017 U	0.017 U	0.015	0.018 U
Carbon Disulfide	720	0.013 U	0.0084 U	0.0083 U	0.013	0.0088 U
Carbon Tetrachloride	1,100	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
Chlorobenzene	680	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
Chloroethane	--	0.027 U	0.017 U	0.017 U	0.014 U	0.018 U
Chloroform	2,900	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
Chloromethane	--	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
Dibromochloromethane	1,300	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
1,1-Dichloroethane	1,700	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
1,2-Dichloroethane	1,800	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
1,1-Dichloroethene	1,500	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
cis-1,2-Dichloroethene	--	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
trans-1,2-Dichloroethene	--	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
1,2-Dichloropropane	1,100	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
cis-1,3-Dichloropropene	1,400	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
trans-1,3-Dichloropropene	1,400	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
Ethylbenzene	400	1.5	0.01	0.015	0.0071 U	0.0088 U
2-Hexanone	--	0.027 U	0.017 U	0.017 U	0.014 U	0.018 U
4-Methyl-2-Pentanone	--	0.027 U	0.017 U	0.017 U	0.014 U	0.018 U
Methylene	2,400	0.027 U	0.017 U	0.017 U	0.014 U	0.018 U
Styrene	1,500	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
1,1,2,2-Tetrachloroethane	--	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
Tetrachloroethene	240	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
Toluene	650	0.77	0.0084 U	0.013	0.0071 U	0.0088 U
1,1,1-Trichloroethane	1,200	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
1,1,2-Trichloroethane	1,800	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
Trichloroethene	1,300	0.013 U	0.0084 U	0.0083 U	0.0071 U	0.0088 U
Vinyl Chloride	1,200	0.027 U	0.017 U	0.017 U	0.014 U	0.018 U
m,p-Xylene	420	0.62	0.0084 U	0.043	0.0071 U	0.0088 U
o-Xylene	410	0.47	0.0084 U	0.033	0.0071 U	0.0088 U
Subtotal:		9.1	0.4	0.5	0.4	0.4

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Soil saturation limits not available.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB32-001 2-3	SB33-001 0-0.5	SP34-001 0-0.5	SP35-001 1-2	SP37-001 1-2
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
Bis(2-chloroethyl)ether	3,300	0.33 U	2 U	1.8 U	0.36 U	0.42 U
Bis(2-ethylhexyl)phthalate	31,000	0.99	2 U	2	5.6	0.42 U
4-Bromophenyl phenyl ether	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
Butyl benzyl phthalate	930	0.33 U	2 U	1.8 U	0.36 U	0.42 U
Carbazole	--	0.46	2 U	1.8 U	0.47	0.67
4-Chloro-3-methylphenol	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
4-Chloroaniline	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
2-Chloronaphthalene	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
2-Chlorophenol	53,000	0.33 U	2 U	1.8 U	0.36 U	0.42 U
4-Chlorophenyl phenyl ether	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
Dibenzofuran	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
1,2-Dichlorobenzene	560	0.33 U	2 U	1.8 U	0.36 U	0.42 U
1,3-Dichlorobenzene	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
1,4-Dichlorobenzene	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
3,3´-Dichlorobenzidine	--	0.66 U	4.1 U	3.5 U	0.71 U	0.85 U
2,4-Dichlorophenol	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
Diethyl phthalate	2,000	0.33 U	2 U	1.8 U	0.36 U	0.42 U
Dimethyl phthalate	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
Di-n-butyl phthalate	2,300	0.33 U	6.3	1.8 U	0.36 U	0.42 U
2,4-Dimethylphenol	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
4,6-Dinitro-2-methylphenol	--	1.6 U	9.9 U	8.6 U	1.7 U	2.1 U
2,4-Dinitrophenol	--	1.6 U	9.9 U	8.6 U	1.7 U	2.1 U
2,4-Dinitrotoluene	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
2,6-Dinitrotoluene	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
Di-n-octyl phthalate	10,000	0.33 U	2 U	1.8 U	0.36 U	0.42 U
Hexachlorobenzene	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
Hexachlorobutadiene	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
Hexachlorocyclopentadiene	2,200	0.33 U	2 U	1.8 U	0.36 U	0.42 U
Hexachloroethane	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
Isophorone	4,600	0.33 U	2 U	1.8 U	0.36 U	0.42 U
2-Methylnaphthalene	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
2-Methylphenol	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
4-Methylphenol	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
2-Nitroaniline	--	1.6 U	9.9 U	8.6 U	1.7 U	2.1 U
3-Nitroaniline	--	1.6 U	9.9 U	8.6 U	1.7 U	2.1 U
4-Nitroaniline	--	1.6 U	9.9 U	8.6 U	1.7 U	2.1 U
Nitrobenzene	1,000	0.33 U	2 U	1.8 U	0.36 U	0.42 U
2-Nitrophenol	--	1.6 U	9.9 U	8.6 U	1.7 U	2.1 U
4-Nitrophenol	--	1.6 U	9.9 U	8.6 U	1.7 U	2.1 U
N-Nitrosodi-n-propylamine	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
N-Nitrosodiphenylamine	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
2, 2'-Oxybis(1-Chloropropane)	--	0.014 U	0.087 U	0.075 U	0.015 U	0.018 U
Pentachlorophenol	--	1.6 U	9.9 U	8.6 U	1.7 U	2.1 U
Phenol	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
1,2,4-Trichlorobenzene	3,200	0.33 U	2 U	1.8 U	0.36 U	0.42 U
2,4,5-Trichlorophenol	--	0.66 U	4.1 U	3.5 U	0.71 U	0.85 U
2,4,6-Trichlorophenol	--	0.33 U	2 U	1.8 U	0.36 U	0.42 U
Subtotal:		27.1	165.8	142.7	33.7	34.3

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Soil saturation limits not available.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB32-001 2-3	SB33-001 0-0.5	SP34-001 0-0.5	SP35-001 1-2	SP37-001 1-2
PAHs (mg/kg)						
Acenaphthene	--	0.8	1.5 U	0.13 U	0.11	0.13
Acenaphthylene	--	1.2	1.6	0.19	0.082	0.074
Anthracene	--	1.5	1.8	0.36	0.15	0.33
Benzo(a)anthracene	--	2.7	2.8	0.13 U	0.19	0.17
Benzo(b)fluoranthene	--	1.2	1.7	0.24	0.47	0.38
Benzo(k)fluoranthene	--	0.76	1.5 U	0.24	0.53	0.87
Benzo(g,h,i)perylene	--	0.61	1.5 U	0.57	0.57	0.35
Benzo(a)pyrene	--	1.7	1.8	0.13	0.33	0.32
Chrysene	--	2.5	3.2	0.75	0.71	1.1
Dibenzo(a,h)anthracene	--	0.25 U	1.5 U	0.13 U	0.076	0.19
Fluoranthene	--	3.4	3.7	0.21	0.55	2
Fluorene	--	1	1.5 U	0.13 U	0.086	0.12
Indeno(1,2,3-cd)pyrene	--	0.56	1.5 U	0.29	0.18	0.36
Naphthalene	--	0.25 U	2.1	0.38	0.16	0.18
Phenanthrene	--	3.8	4.1	1.3	0.7	1
Pyrene	--	4.6	5.5	0.36	0.63	2.1
PCBs (mg/kg)						
Aroclor 1016	--	0.085 U	0.088 U	0.87 U	0.086 U	0.1 U
Aroclor 1221	--	0.085 U	0.088 U	0.87 U	0.086 U	0.1 U
Aroclor 1232	--	0.085 U	0.088 U	0.87 U	0.086 U	0.1 U
Aroclor 1242	--	1.3	2.5	0.87 U	8.5	0.1 U
Aroclor 1248	--	0.085 U	0.088 U	0.87 U	0.086 U	0.1 U
Aroclor 1254	--	1.1	2.2	1.7 U	6	0.2 U
Aroclor 1260	--	0.17 U	0.18 U	1.7 U	0.17 U	0.2 U
Subtotal of PCBs:	50*	2.9	5.2	7.8	15.0	0.9
Subtotal:		29.7	42.5	13.3	20.5	10.6
Total Organic Content:	6,000**	66	209	156	55	45

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Soil saturation limits not available.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(7) ** 6,000 mg/kg is the natural organic carbon fraction (foc) default value for surface soil.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP39-001 1-2	SP40-001 2-3	SP43-001 2-3	SP44-001 0-0.5	SB45-001 0-0.5
TCL Volatiles (mg/kg)						
Acetone	100,000	0.036 U	0.13	0.15	0.079 U	0.065
Benzene	870	0.0071 U	0.015 U	0.013 U	0.016 U	0.12
Bromodichloromethane	3,000	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
Bromoform	1,900	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
Bromomethane	3,200	0.014 U	0.029 U	0.027 U	0.031 U	0.019 U
2-Butanone	--	0.014 U	0.029 U	0.031	0.031 U	0.034
Carbon Disulfide	720	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
Carbon Tetrachloride	1,100	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
Chlorobenzene	680	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
Chloroethane	--	0.014 U	0.029 U	0.027 U	0.031 U	0.019 U
Chloroform	2,900	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
Chloromethane	--	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
Dibromochloromethane	1,300	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
1,1-Dichloroethane	1,700	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
1,2-Dichloroethane	1,800	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
1,1-Dichloroethene	1,500	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
cis-1,2-Dichloroethene	--	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
trans-1,2-Dichloroethene	--	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
1,2-Dichloropropane	1,100	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
cis-1,3-Dichloropropene	1,400	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
trans-1,3-Dichloropropene	1,400	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
Ethylbenzene	400	0.0071 U	0.015 U	0.013 U	0.016 U	0.37
2-Hexanone	--	0.014 U	0.029 U	0.027 U	0.031 U	0.019 U
4-Methyl-2-Pentanone	--	0.014 U	0.029 U	0.027 U	0.031 U	0.019 U
Methylene	2,400	0.014 U	0.029 U	0.027 U	0.031 U	0.019 U
Styrene	1,500	0.0071 U	0.015 U	0.013 U	0.016 U	0.014
1,1,2,2-Tetrachloroethane	--	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
Tetrachloroethene	240	0.0071 U	0.015 U	0.013 U	0.023	0.0094 U
Toluene	650	0.008	0.015 U	0.013 U	0.016 U	0.025
1,1,1-Trichloroethane	1,200	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
1,1,2-Trichloroethane	1,800	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
Trichloroethene	1,300	0.0071 U	0.015 U	0.013 U	0.016 U	0.0094 U
Vinyl Chloride	1,200	0.014 U	0.029 U	0.027 U	0.031 U	0.019 U
m,p-Xylene	420	0.0071 U	0.015 U	0.013 U	0.016 U	0.057
o-Xylene	410	0.0071 U	0.015 U	0.013 U	0.016 U	0.17
Subtotal:		0.3	0.7	0.7	0.7	1.2

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Soil saturation limits not available.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP39-001 1-2	SP40-001 2-3	SP43-001 2-3	SP44-001 0-0.5	SB45-001 0-0.5
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
Bis(2-chloroethyl)ether	3,300	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
Bis(2-ethylhexyl)phthalate	31,000	1.7 U	170	0.43 U	9.7	2.1
4-Bromophenyl phenyl ether	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
Butyl benzyl phthalate	930	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
Carbazole	--	1.7 U	1.9 U	0.43 U	1.9 U	0.87
4-Chloro-3-methylphenol	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
4-Chloroaniline	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
2-Chloronaphthalene	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
2-Chlorophenol	53,000	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
4-Chlorophenyl phenyl ether	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
Dibenzofuran	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
1,2-Dichlorobenzene	560	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
1,3-Dichlorobenzene	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
1,4-Dichlorobenzene	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
3,3´-Dichlorobenzidine	--	3.5 U	3.8 U	0.85 U	3.9 U	0.69 U
2,4-Dichlorophenol	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
Diethyl phthalate	2,000	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
Dimethyl phthalate	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
Di-n-butyl phthalate	2,300	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
2,4-Dimethylphenol	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
4,6-Dinitro-2-methylphenol	--	8.4 U	9.1 U	2.1 U	9.4 U	1.7 U
2,4-Dinitrophenol	--	8.4 U	9.1 U	2.1 U	9.4 U	1.7 U
2,4-Dinitrotoluene	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
2,6-Dinitrotoluene	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
Di-n-octyl phthalate	10,000	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
Hexachlorobenzene	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
Hexachlorobutadiene	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
Hexachlorocyclopentadiene	2,200	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
Hexachloroethane	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
Isophorone	4,600	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
2-Methylnaphthalene	--	1.7 U	1.9 U	0.43 U	1.9 U	1.7
2-Methylphenol	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
4-Methylphenol	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
2-Nitroaniline	--	8.4 U	9.1 U	2.1 U	9.4 U	1.7 U
3-Nitroaniline	--	8.4 U	9.1 U	2.1 U	9.4 U	1.7 U
4-Nitroaniline	--	8.4 U	9.1 U	2.1 U	9.4 U	1.7 U
Nitrobenzene	1,000	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
2-Nitrophenol	--	8.4 U	9.1 U	2.1 U	9.4 U	1.7 U
4-Nitrophenol	--	8.4 U	9.1 U	2.1 U	9.4 U	1.7 U
N-Nitrosodi-n-propylamine	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
N-Nitrosodiphenylamine	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
2, 2'-Oxybis(1-Chloropropane)	--	0.074 U	0.08 U	0.018 U	0.082 U	0.015 U
Pentachlorophenol	--	8.4 U	9.1 U	2.1 U	9.4 U	1.7 U
Phenol	--	1.7 U	2.3	0.43 U	1.9 U	0.35 U
1,2,4-Trichlorobenzene	3,200	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
2,4,5-Trichlorophenol	--	3.5 U	3.8 U	0.85 U	3.9 U	0.69 U
2,4,6-Trichlorophenol	--	1.7 U	1.9 U	0.43 U	1.9 U	0.35 U
Subtotal:		137.2	319.3	34.4	161.2	31.6

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) TCL - Target compound list.
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) -- Soil saturation limits not available.

Table 9 (Continued)
Potential Source Material Calculations for Surface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP39-001 1-2	SP40-001 2-3	SP43-001 2-3	SP44-001 0-0.5	SB45-001 0-0.5
PAHs (mg/kg)						
Acenaphthene	--	1.3 U	0.38	0.072	0.15 U	0.74
Acenaphthylene	--	1.3 U	0.47	0.17	0.15 U	0.65
Anthracene	--	1.3 U	0.45	0.032 U	0.16	1.9
Benzo(a)anthracene	--	1.3 U	0.14	0.045	0.15 U	2.5
Benzo(b)fluoranthene	--	1.3 U	1.8	0.12	0.78	2
Benzo(k)fluoranthene	--	1.3 U	1.5	0.098	0.81	1.9
Benzo(g,h,i)perylene	--	1.3 U	1.5	0.062	1.1	1.3
Benzo(a)pyrene	--	1.3 U	1.2	0.056	0.45	2.4
Chrysene	--	1.3 U	2.9	0.3	0.83	3.9
Dibenzo(a,h)anthracene	--	1.3 U	0.57	0.032 U	0.25	0.37
Fluoranthene	--	1.3 U	3.8	0.15	0.45	4.1
Fluorene	--	1.3 U	0.32	0.032 U	0.15 U	1.2
Indeno(1,2,3-cd)pyrene	--	1.3 U	0.98	0.043	0.69	0.94
Naphthalene	--	1.3 U	0.25	0.062	0.15 U	1.8
Phenanthrene	--	1.3	1.7	0.19	0.42	3.6
Pyrene	--	2	5	0.14	0.64	6.8
PCBs (mg/kg)						
Aroclor 1016	--	0.087 U	0.094 U	0.1 U	0.094 U	0.084 U
Aroclor 1221	--	0.087 U	0.094 U	0.1 U	0.094 U	0.084 U
Aroclor 1232	--	0.087 U	0.094 U	0.1 U	0.094 U	0.084 U
Aroclor 1242	--	0.087 U	31	0.1 U	1.5	5.2 U
Aroclor 1248	--	0.087 U	0.094 U	0.1 U	0.094 U	0.084 U
Aroclor 1254	--	0.17 U	24	0.21 U	1	5.2 U
Aroclor 1260	--	0.17 U	0.19 U	0.21 U	0.19 U	0.17 U
Subtotal of PCBs:	50*	0.8	55.6	0.9	3.1	10.9
Subtotal:		22.3	78.5	2.5	10.4	47.0
Total Organic Content:	6,000**	160	399	38	172	80

NOTES:
(1) mg/kg - miligrams per kilogram.
(2) PAHs - Polynuclear Aromatic Hydrocarbons.
(3) -- Soil saturation limits not available.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) PCBs - Polychlorinated Biphenyls.
(6) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(7) Shaded value exceeds the source material criteria for PCBs.
(8) ** 6,000 mg/kg is the natural organic carbon fraction (foc) default value for surface soil.

Table 10
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-002 8-10	SP02-002 3-4	SP03-002 4-5	SB04-001 5-7	SP05-002 9-10
TCL Volatiles (mg/kg)						
Acetone	100,000	0.041 U	0.091	0.32	0.061 U	0.061
Benzene	870	0.0082 U	0.015	0.017 U	0.012 U	0.012 U
Bromodichloromethane	3,000	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
Bromoform	1,900	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
Bromomethane	3,200	0.016 U	0.016 U	0.034 U	0.025 U	0.023 U
2-Butanone	--	0.016 U	0.02	0.072	0.025 U	0.023 U
Carbon Disulfide	720	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
Carbon Tetrachloride	1,100	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
Chlorobenzene	680	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
Chloroethane	--	0.016 U	0.016 U	0.034 U	0.025 U	0.023 U
Chloroform	2,900	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
Chloromethane	--	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
Dibromochloromethane	1,300	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
1,1-Dichloroethane	1,700	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
1,2-Dichloroethane	1,800	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
1,1-Dichloroethene	1,500	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
cis-1,2-Dichloroethene	--	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
trans-1,2-Dichloroethene	--	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
1,2-Dichloropropane	1,100	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
cis-1,3-Dichloropropene	1,400	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
trans-1,3-Dichloropropene	1,400	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
Ethylbenzene	400	0.0082 U	0.049	0.017 U	0.012 U	0.012 U
2-Hexanone	--	0.016 U	0.016 U	0.034 U	0.025 U	0.023 U
4-Methyl-2-Pentanone	--	0.016 U	0.016 U	0.034 U	0.025 U	0.023 U
Methylene	2,400	0.016 U	0.016 U	0.034 U	0.025 U	0.023 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
1,1,2,2-Tetrachloroethane	--	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
Tetrachloroethene	240	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
Toluene	650	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
1,1,1-Trichloroethane	1,200	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
1,1,2-Trichloroethane	1,800	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
Trichloroethene	1,300	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
Vinyl Chloride	1,200	0.016 U	0.016 U	0.034 U	0.025 U	0.023 U
m,p-Xylene	420	0.0082 U	0.0081 U	0.017 U	0.012 U	0.012 U
o-Xylene	410	0.0082 U	0.012	0.017 U	0.012 U	0.012 U
Xylenes, Total	320	NA	NA	NA	NA	NA
Subtotal:		0.4	0.5	1.1	0.6	0.5

NOTES:

(2) mg/kg - milligrams per kilogram.
(3) TCL - Target compound list.
(4) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(5) -- Soil saturation limits not available.
(6) NA - Not analyzed.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-002 8-10	SP02-002 3-4	SP03-002 4-5	SB04-001 5-7	SP05-002 9-10
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
Bis(2-chloroethyl)ether	3,300	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	0.45	0.38 U	0.44 U	1.1	0.39 U
4-Bromophenyl phenyl ether	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
Butyl benzyl phthalate	930	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
Carbazole	--	0.38 U	0.47	0.44 U	0.41 U	0.39 U
4-Chloro-3-methylphenol	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
4-Chloroaniline	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
2-Chloronaphthalene	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
2-Chlorophenol	53,000	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
Dibenzofuran	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
1,2-Dichlorobenzene	560	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
1,3-Dichlorobenzene	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
1,4-Dichlorobenzene	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
3,3´-Dichlorobenzidine	--	0.76 U	0.75 U	0.89 U	0.82 U	0.78 U
2,4-Dichlorophenol	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
Diethyl phthalate	2,000	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
Dimethyl phthalate	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
Di-n-butyl phthalate	2,300	0.38 U	0.38 U	0.44 U	0.45	0.39 U
2,4-Dimethylphenol	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.8 U	1.8 U	2.1 U	2 U	1.9 U
2,4-Dinitrophenol	--	1.8 U	1.8 U	2.1 U	2 U	1.9 U
2,4-Dinitrotoluene	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
2,6-Dinitrotoluene	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
Di-n-octyl phthalate	10,000	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
Hexachlorobenzene	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
Hexachlorobutadiene	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
Hexachlorocyclopentadiene	2,200	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
Hexachloroethane	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
Isophorone	4,600	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
2-Methylnaphthalene	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
2-Methylphenol	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
4-Methylphenol	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
2-Nitroaniline	--	1.8 U	1.8 U	2.1 U	2 U	1.9 U
3-Nitroaniline	--	1.8 U	1.8 U	2.1 U	2 U	1.9 U
4-Nitroaniline	--	1.8 U	1.8 U	2.1 U	2 U	1.9 U
Nitrobenzene	1,000	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
2-Nitrophenol	--	1.8 U	1.8 U	2.1 U	2 U	1.9 U
4-Nitrophenol	--	1.8 U	1.8 U	2.1 U	2 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
N-Nitrosodiphenylamine	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.019 U	0.017 U	0.017 U
Pentachlorophenol	--	1.8 U	1.8 U	2.1 U	2 U	1.9 U
Phenol	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
1,2,4-Trichlorobenzene	3,200	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
2,4,5-Trichlorophenol	--	0.76 U	0.75 U	0.89 U	0.82 U	0.78 U
2,4,6-Trichlorophenol	--	0.38 U	0.38 U	0.44 U	0.41 U	0.39 U
Subtotal:		30.1	30.1	34.9	33.6	31.2

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) TCL - Target Compound List.
(4) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB01-002 8-10	SP02-002 3-4	SP03-002 4-5	SB04-001 5-7	SP05-002 9-10
PAHs (mg/kg)						
Acenaphthene	--	0.029 U	0.19	0.034 U	0.17	0.03 U
Acenaphthylene	--	0.029 U	0.13	0.034 U	0.13	0.03 U
Anthracene	--	0.16	0.3	0.034 U	0.7	0.03 U
Benzo(a)anthracene	--	0.34	0.43	0.034 U	0.78	0.03 U
Benzo(b)fluoranthene	--	0.32	0.36	0.034 U	1.1	0.03 U
Benzo(k)fluoranthene	--	0.26	0.39	0.034 U	0.91	0.03 U
Benzo(g,h,i)perylene	--	0.23	0.48	0.034 U	1.2	0.03 U
Benzo(a)pyrene	--	0.21	0.52	0.034 U	0.75	0.03 U
Chrysene	--	0.67	0.62	0.034 U	1.7	0.03 U
Dibenzo(a,h)anthracene	--	0.099	0.13	0.034 U	0.41	0.03 U
Fluoranthene	--	1.1	0.85	0.034 U	2.4	0.03 U
Fluorene	--	0.029 U	0.21	0.034 U	0.31	0.03 U
Indeno(1,2,3-cd)pyrene	--	0.2	0.35	0.034 U	0.74	0.03 U
Naphthalene	--	0.044	0.28	0.034 U	0.15	0.03 U
Phenanthrene	--	0.35	1	0.034 U	1.5	0.03 U
Pyrene	--	1.2	1.1	0.034 U	3.4	0.03 U
PCBs (mg/kg)						
Aroclor 1016	--	0.093 U	0.09 U	0.1 U	0.096 U	0.095 U
Aroclor 1221	--	0.093 U	0.09 U	0.1 U	0.096 U	0.095 U
Aroclor 1232	--	0.093 U	0.09 U	0.1 U	0.096 U	0.095 U
Aroclor 1242	--	0.093 U	0.09 U	0.1 U	5.8	0.095 U
Aroclor 1248	--	0.093 U	0.09 U	0.1 U	0.096 U	0.095 U
Aroclor 1254	--	0.19 U	0.18 U	0.2 U	3.4	0.19 U
Aroclor 1260	--	0.19 U	0.18 U	0.2 U	0.19 U	0.19 U
Subtotal of PCBs:	50*	0.8	0.8	0.9	9.8	0.9
Subtotal:		6.1	8.2	1.4	26.1	1.3
Total Organic Content:	2,000**	37	39	37	60	33

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(4) ** 2,000 mg/kg is the natural organic carbon fraction (foc) default value for subsurface soil.
(5) PAHs - Polynuclear Aromatic Hydrocarbons.
(6) PCBs - Polychlorinated Biphenyls.
(7) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP06-002 3-4	SP06-003 8-10	SP07-002 9-10	SP07-003 16-17	SP08-002 7-8
TCL Volatiles (mg/kg)						
Acetone	100,000	0.16	0.092 U	0.068 U	0.046 U	0.097
Benzene	870	0.78	0.056	0.014 U	0.0093 U	0.011 U
Bromodichloromethane	3,000	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
Bromoform	1,900	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
Bromomethane	3,200	0.05 U	0.037 U	0.027 U	0.019 U	0.022 U
2-Butanone	--	0.05 U	0.037 U	0.027 U	0.019 U	0.022 U
Carbon Disulfide	720	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
Carbon Tetrachloride	1,100	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
Chlorobenzene	680	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
Chloroethane	--	0.05 U	0.037 U	0.027 U	0.019 U	0.022 U
Chloroform	2,900	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
Chloromethane	--	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
Dibromochloromethane	1,300	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
1,1-Dichloroethane	1,700	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
1,2-Dichloroethane	1,800	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
1,1-Dichloroethene	1,500	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
cis-1,2-Dichloroethene	--	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
trans-1,2-Dichloroethene	--	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
1,2-Dichloropropane	1,100	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
cis-1,3-Dichloropropene	1,400	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
trans-1,3-Dichloropropene	1,400	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
Ethylbenzene	400	3	0.38	0.014 U	0.0093 U	0.011 U
2-Hexanone	--	0.05 U	0.037 U	0.027 U	0.019 U	0.022 U
4-Methyl-2-Pentanone	--	0.05 U	0.037 U	0.027 U	0.019 U	0.022 U
Methylene	2,400	0.05 U	0.037 U	0.027 U	0.019 U	0.022 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
1,1,2,2-Tetrachloroethane	--	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
Tetrachloroethene	240	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
Toluene	650	0.79	0.044	0.014 U	0.0093 U	0.011 U
1,1,1-Trichloroethane	1,200	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
1,1,2-Trichloroethane	1,800	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
Trichloroethene	1,300	0.025 U	0.018 U	0.014 U	0.0093 U	0.011 U
Vinyl Chloride	1,200	0.05 U	0.037 U	0.027 U	0.019 U	0.022 U
m,p-Xylene	420	3	0.098	0.014 U	0.0093 U	0.011 U
o-Xylene	410	2	0.17	0.014 U	0.0093 U	0.011 U
Xylenes, Total	320	NA	NA	NA	NA	NA
Subtotal:		10.6	1.5	0.6	0.4	0.5

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) NA - Not analyzed.
(4) TCL - Target Compound List.
(5) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP06-002 3-4	SP06-003 8-10	SP07-002 9-10	SP07-003 16-17	SP08-002 7-8
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
Bis(2-chloroethyl)ether	3,300	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
4-Bromophenyl phenyl ether	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
Butyl benzyl phthalate	930	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
Carbazole	--	0.39 U	1.4	0.38 U	0.39 U	0.4 U
4-Chloro-3-methylphenol	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
4-Chloroaniline	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
2-Chloronaphthalene	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
2-Chlorophenol	53,000	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
4-Chlorophenyl phenyl ether	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
Dibenzofuran	--	1.3	1.6	0.38 U	0.39 U	0.4 U
1,2-Dichlorobenzene	560	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
1,3-Dichlorobenzene	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
1,4-Dichlorobenzene	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
3,3´-Dichlorobenzidine	--	0.78 U	2.2 U	0.76 U	0.79 U	0.8 U
2,4-Dichlorophenol	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
Diethyl phthalate	2,000	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
Dimethyl phthalate	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
Di-n-butyl phthalate	2,300	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
2,4-Dimethylphenol	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
4,6-Dinitro-2-methylphenol	--	1.9 U	5.2 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrophenol	--	1.9 U	5.2 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
2,6-Dinitrotoluene	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
Di-n-octyl phthalate	10,000	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
Hexachlorobenzene	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
Hexachlorobutadiene	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
Hexachlorocyclopentadiene	2,200	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
Hexachloroethane	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
Isophorone	4,600	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
2-Methylnaphthalene	--	20	17	0.38 U	0.39 U	0.4 U
2-Methylphenol	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
4-Methylphenol	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
2-Nitroaniline	--	1.9 U	5.2 U	1.9 U	1.9 U	1.9 U
3-Nitroaniline	--	1.9 U	5.2 U	1.9 U	1.9 U	1.9 U
4-Nitroaniline	--	1.9 U	5.2 U	1.9 U	1.9 U	1.9 U
Nitrobenzene	1,000	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
2-Nitrophenol	--	1.9 U	5.2 U	1.9 U	1.9 U	1.9 U
4-Nitrophenol	--	1.9 U	5.2 U	1.9 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
N-Nitrosodiphenylamine	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.046 U	0.016 U	0.017 U	0.017 U
Pentachlorophenol	--	1.9 U	5.2 U	1.9 U	1.9 U	1.9 U
Phenol	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
1,2,4-Trichlorobenzene	3,200	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
2,4,5-Trichlorophenol	--	0.78 U	2.2 U	0.76 U	0.79 U	0.8 U
2,4,6-Trichlorophenol	--	0.39 U	1.1 U	0.38 U	0.39 U	0.4 U
Subtotal:		51.7	103.4	30.8	31.2	31.6

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) TCL - Target Compound List.
(4) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP06-002 3-4	SP06-003 8-10	SP07-002 9-10	SP07-003 16-17	SP08-002 7-8
PAHs (mg/kg)						
Acenaphthene	--	10	4.5	0.029 U	0.03 U	0.003 U
Acenaphthylene	--	2	4.2	0.029 U	0.03 U	0.0052
Anthracene	--	9.6	4.9	0.029 U	0.03 U	0.011
Benzo(a)anthracene	--	3.9	4.2	0.029 U	0.03 U	0.029
Benzo(b)fluoranthene	--	1.1	1.3	0.029 U	0.03 U	0.035
Benzo(k)fluoranthene	--	0.89	1.1	0.029 U	0.03 U	0.027
Benzo(g,h,i)perylene	--	1.2	0.82 U	0.029 U	0.03 U	0.015
Benzo(a)pyrene	--	2.7	0.97	0.029 U	0.03 U	0.031
Chrysene	--	5.1	4.3	0.029 U	0.03 U	0.035
Dibenzo(a,h)anthracene	--	0.52	0.82 U	0.029 U	0.03 U	0.006
Fluoranthene	--	9.1	6.8	0.029 U	0.03 U	0.043
Fluorene	--	10	6.5	0.029 U	0.03 U	0.0052
Indeno(1,2,3-cd)pyrene	--	1.2	0.82 U	0.029 U	0.03 U	0.014
Naphthalene	--	27	13	0.029 U	0.03 U	0.004
Phenanthrene	--	34	21	0.029 U	0.03 U	0.032
Pyrene	--	15	10	0.029 U	0.03 U	0.056
PCBs (mg/kg)						
Aroclor 1016	--	0.094 U	0.09 U	0.09 U	0.096 U	0.098 U
Aroclor 1221	--	0.094 U	0.09 U	0.09 U	0.096 U	0.098 U
Aroclor 1232	--	0.094 U	0.09 U	0.09 U	0.096 U	0.098 U
Aroclor 1242	--	0.094 U	0.09 U	0.09 U	0.096 U	0.098 U
Aroclor 1248	--	0.094 U	0.09 U	0.09 U	0.096 U	0.098 U
Aroclor 1254	--	0.19 U	0.18 U	0.18 U	0.19 U	0.2 U
Aroclor 1260	--	0.19 U	0.18 U	0.18 U	0.19 U	0.2 U
Subtotal of PCBs:	50*	0.9	0.8	0.8	0.9	0.9
Subtotal:		134.2	86.0	1.3	1.3	1.2
Total Organic Content:	2,000**	197	191	33	33	33

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(4) ** 2,000 mg/kg is the natural organic carbon fraction (foc) default value for subsurface soil.
(5) PAHs - Polynuclear Aromatic Hydrocarbons.
(6) PCBs - Polychlorinated Biphenyls.
(7) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB09-001 3-5	SP10-002 6-7	SP10-003 13-14	SP11-002 9-10	SP13-002 6-7
TCL Volatiles (mg/kg)						
Acetone	100,000	0.12	0.071 U	0.053 U	0.078	0.12
Benzene	870	0.19	3.6	0.92	0.013 U	0.012 U
Bromodichloromethane	3,000	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
Bromoform	1,900	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
Bromomethane	3,200	0.022 U	0.028 U	0.021 U	0.026 U	0.023 U
2-Butanone	--	0.022 U	0.028 U	0.021 U	0.026 U	0.023 U
Carbon Disulfide	720	0.013	0.014 U	0.011 U	0.013 U	0.012 U
Carbon Tetrachloride	1,100	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
Chlorobenzene	680	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
Chloroethane	--	0.022 U	0.028 U	0.021 U	0.026 U	0.023 U
Chloroform	2,900	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
Chloromethane	--	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
Dibromochloromethane	1,300	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
1,1-Dichloroethane	1,700	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
1,2-Dichloroethane	1,800	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
1,1-Dichloroethene	1,500	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
cis-1,2-Dichloroethene	--	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
trans-1,2-Dichloroethene	--	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
1,2-Dichloropropane	1,100	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
cis-1,3-Dichloropropene	1,400	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
trans-1,3-Dichloropropene	1,400	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
Ethylbenzene	400	0.07	8.2	9	0.013 U	0.012 U
2-Hexanone	--	0.022 U	0.028 U	0.021 U	0.026 U	0.023 U
4-Methyl-2-Pentanone	--	0.022 U	0.028 U	0.021 U	0.026 U	0.023 U
Methylene	2,400	0.022 U	0.028 U	0.021 U	0.026 U	0.023 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
1,1,2,2-Tetrachloroethane	--	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
Tetrachloroethene	240	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
Toluene	650	0.011 U	0.014 U	0.6	0.013 U	0.012 U
1,1,1-Trichloroethane	1,200	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
1,1,2-Trichloroethane	1,800	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
Trichloroethene	1,300	0.011 U	0.014 U	0.011 U	0.013 U	0.012 U
Vinyl Chloride	1,200	0.022 U	0.028 U	0.021 U	0.026 U	0.023 U
m,p-Xylene	420	0.013	5	3.8	0.013 U	0.012 U
o-Xylene	410	0.087	1.4	12	0.013 U	0.012 U
Xylenes, Total	320	NA	NA	NA	NA	NA
Subtotal:		0.9	18.8	26.8	0.6	0.6

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) NA - Not analyzed.
(4) TCL - Target Compound List.
(5) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB09-001 3-5	SP10-002 6-7	SP10-003 13-14	SP11-002 9-10	SP13-002 6-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
Bis(2-chloroethyl)ether	3,300	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
Bis(2-ethylhexyl)phthalate	31,000	0.75	0.39 U	0.38 U	0.38 U	0.4 U
4-Bromophenyl phenyl ether	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
Butyl benzyl phthalate	930	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
Carbazole	--	3.7	0.39 U	0.38 U	0.38 U	0.4 U
4-Chloro-3-methylphenol	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
4-Chloroaniline	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
2-Chloronaphthalene	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
2-Chlorophenol	53,000	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
4-Chlorophenyl phenyl ether	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
Dibenzofuran	--	0.65	1.2	0.75	0.38 U	0.4 U
1,2-Dichlorobenzene	560	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
1,3-Dichlorobenzene	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
1,4-Dichlorobenzene	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
3,3´-Dichlorobenzidine	--	0.75 U	0.77 U	0.77 U	0.77 U	0.8 U
2,4-Dichlorophenol	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
Diethyl phthalate	2,000	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
Dimethyl phthalate	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
Di-n-butyl phthalate	2,300	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
2,4-Dimethylphenol	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
4,6-Dinitro-2-methylphenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrophenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
2,6-Dinitrotoluene	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
Di-n-octyl phthalate	10,000	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
Hexachlorobenzene	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
Hexachlorobutadiene	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
Hexachlorocyclopentadiene	2,200	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
Hexachloroethane	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
Isophorone	4,600	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
2-Methylnaphthalene	--	0.37 U	23	20	0.42	0.53
2-Methylphenol	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
4-Methylphenol	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
2-Nitroaniline	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
3-Nitroaniline	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Nitroaniline	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Nitrobenzene	1,000	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
2-Nitrophenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Nitrophenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
N-Nitrosodiphenylamine	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.016 U	0.016 U	0.017 U
Pentachlorophenol	--	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
1,2,4-Trichlorobenzene	3,200	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
2,4,5-Trichlorophenol	--	0.75 U	0.77 U	0.77 U	0.77 U	0.8 U
2,4,6-Trichlorophenol	--	0.37 U	0.39 U	0.38 U	0.38 U	0.4 U
Subtotal:		33.6	54.6	50.8	30.9	31.7

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) TCL - Target Compound List.
(4) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB09-001 3-5	SP10-002 6-7	SP10-003 13-14	SP11-002 9-10	SP13-002 6-7
PAHs (mg/kg)						
Acenaphthene	--	0.51	8.6	5.5	0.046	0.056
Acenaphthylene	--	0.36	5.1	3.7	0.029 U	0.03 U
Anthracene	--	2.3	8.6	3.1	0.029 U	0.03 U
Benzo(a)anthracene	--	3.3	1.7	0.37	0.029 U	0.03 U
Benzo(b)fluoranthene	--	2.3	2.5	0.42	0.029 U	0.03 U
Benzo(k)fluoranthene	--	2.3	1.7	0.49	0.029 U	0.03 U
Benzo(g,h,i)perylene	--	0.74	1.6	0.51	0.029 U	0.03 U
Benzo(a)pyrene	--	1.6	2.2	0.45	0.029 U	0.03 U
Chrysene	--	3.8	11	2.2	0.032	0.03 U
Dibenzo(a,h)anthracene	--	0.31	0.59	0.13	0.029 U	0.03 U
Fluoranthene	--	5.3	6.8	1.8	0.037	0.03 U
Fluorene	--	0.92	6.7	3.8	0.029 U	0.03 U
Indeno(1,2,3-cd)pyrene	--	0.69	1.1	0.26	0.029 U	0.03 U
Naphthalene	--	0.52	18	27	0.73	0.99
Phenanthrene	--	5.2	26	9.3	0.092	0.04
Pyrene	--	5.1	14	3	0.063	0.03 U
PCBs (mg/kg)						
Aroclor 1016	--	0.088 U	0.094 U	0.09 U	0.094 U	0.097 U
Aroclor 1221	--	0.088 U	0.094 U	0.09 U	0.094 U	0.097 U
Aroclor 1232	--	0.088 U	0.094 U	0.09 U	0.094 U	0.097 U
Aroclor 1242	--	0.39	0.094 U	0.09 U	0.094 U	0.097 U
Aroclor 1248	--	0.088 U	0.094 U	0.09 U	0.094 U	0.097 U
Aroclor 1254	--	0.41	0.19 U	0.18 U	0.19 U	0.19 U
Aroclor 1260	--	0.18 U	0.19 U	0.18 U	0.19 U	0.19 U
Subtotal of PCBs:	50*	1.3	0.9	0.8	0.9	0.9
Subtotal:		36.6	117.0	62.8	2.1	2.3
Total Organic Content:	2,000**	71	190	140	34	35

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(4) ** 2,000 mg/kg is the natural organic carbon fraction (foc) default value for subsurface soil.
(5) PAHs - Polynuclear Aromatic Hydrocarbons.
(6) PCBs - Polychlorinated Biphenyls.
(7) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-003 15-16	SB14-002 6-8	SB15-002 6-8	SB15-003 10-12	SP16-002 9-10
TCL Volatiles (mg/kg)						
Acetone	100,000	0.055 U	0.078	0.051 U	0.1	0.1
Benzene	870	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
Bromodichloromethane	3,000	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
Bromoform	1,900	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
Bromomethane	3,200	0.022 U	0.03 U	0.021 U	0.022 U	0.02 U
2-Butanone	--	0.022 U	0.03 U	0.021 U	0.022 U	0.02 U
Carbon Disulfide	720	0.011 U	0.015 U	0.018	0.011 U	0.0098 U
Carbon Tetrachloride	1,100	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
Chlorobenzene	680	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
Chloroethane	--	0.022 U	0.03 U	0.021 U	0.022 U	0.02 U
Chloroform	2,900	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
Chloromethane	--	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
Dibromochloromethane	1,300	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
1,1-Dichloroethane	1,700	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
1,2-Dichloroethane	1,800	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
1,1-Dichloroethene	1,500	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
cis-1,2-Dichloroethene	--	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
trans-1,2-Dichloroethene	--	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
1,2-Dichloropropane	1,100	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
cis-1,3-Dichloropropene	1,400	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
trans-1,3-Dichloropropene	1,400	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
Ethylbenzene	400	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
2-Hexanone	--	0.022 U	0.03 U	0.021 U	0.022 U	0.02 U
4-Methyl-2-Pentanone	--	0.022 U	0.03 U	0.021 U	0.022 U	0.02 U
Methylene	2,400	0.022 U	0.03 U	0.021 U	0.022 U	0.02 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
1,1,2,2-Tetrachloroethane	--	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
Tetrachloroethene	240	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
Toluene	650	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
1,1,1-Trichloroethane	1,200	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
1,1,2-Trichloroethane	1,800	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
Trichloroethene	1,300	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
Vinyl Chloride	1,200	0.022 U	0.03 U	0.021 U	0.022 U	0.02 U
m,p-Xylene	420	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
o-Xylene	410	0.011 U	0.015 U	0.01 U	0.011 U	0.0098 U
Xylenes, Total	320	NA	NA	NA	NA	NA
Subtotal:		0.5	0.7	0.5	0.6	0.5

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) NA - Not analyzed.
(4) TCL - Target Compound List.
(5) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-003 15-16	SB14-002 6-8	SB15-002 6-8	SB15-003 10-12	SP16-002 9-10
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
Bis(2-chloroethyl)ether	3,300	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
4-Bromophenyl phenyl ether	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
Butyl benzyl phthalate	930	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
Carbazole	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
4-Chloro-3-methylphenol	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
4-Chloroaniline	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
2-Chloronaphthalene	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
2-Chlorophenol	53,000	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
Dibenzofuran	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
1,2-Dichlorobenzene	560	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
1,3-Dichlorobenzene	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
1,4-Dichlorobenzene	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
3,3´-Dichlorobenzidine	--	0.78 U	0.84 U	0.78 U	0.85 U	0.77 U
2,4-Dichlorophenol	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
Diethyl phthalate	2,000	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
Dimethyl phthalate	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
Di-n-butyl phthalate	2,300	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
2,4-Dimethylphenol	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	2 U	1.9 U	2.1 U	1.9 U
2,4-Dinitrophenol	--	1.9 U	2 U	1.9 U	2.1 U	1.9 U
2,4-Dinitrotoluene	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
2,6-Dinitrotoluene	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
Di-n-octyl phthalate	10,000	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
Hexachlorobenzene	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
Hexachlorobutadiene	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
Hexachlorocyclopentadiene	2,200	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
Hexachloroethane	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
Isophorone	4,600	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
2-Methylnaphthalene	--	0.79	0.42 U	0.39 U	0.42 U	0.39 U
2-Methylphenol	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
4-Methylphenol	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
2-Nitroaniline	--	1.9 U	2 U	1.9 U	2.1 U	1.9 U
3-Nitroaniline	--	1.9 U	2 U	1.9 U	2.1 U	1.9 U
4-Nitroaniline	--	1.9 U	2 U	1.9 U	2.1 U	1.9 U
Nitrobenzene	1,000	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
2-Nitrophenol	--	1.9 U	2 U	1.9 U	2.1 U	1.9 U
4-Nitrophenol	--	1.9 U	2 U	1.9 U	2.1 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
N-Nitrosodiphenylamine	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.018 U	0.017 U	0.018 U	0.016 U
Pentachlorophenol	--	1.9 U	2 U	1.9 U	2.1 U	1.9 U
Phenol	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
1,2,4-Trichlorobenzene	3,200	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
2,4,5-Trichlorophenol	--	0.78 U	0.84 U	0.78 U	0.85 U	0.77 U
2,4,6-Trichlorophenol	--	0.39 U	0.42 U	0.39 U	0.42 U	0.39 U
Subtotal:		31.6	33.2	31.2	34.1	31.2

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) TCL - Target Compound List.
(4) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP13-003 15-16	SB14-002 6-8	SB15-002 6-8	SB15-003 10-12	SP16-002 9-10
PAHs (mg/kg)						
Acenaphthene	--	0.077	0.032 U	0.03 U	0.032 U	0.029 U
Acenaphthylene	--	0.03 U	0.032 U	0.03 U	0.032 U	0.029 U
Anthracene	--	0.03 U	0.032 U	0.03 U	0.032 U	0.029 U
Benzo(a)anthracene	--	0.03 U	0.032 U	0.03 U	0.032 U	0.029 U
Benzo(b)fluoranthene	--	0.03 U	0.032 U	0.03 U	0.032 U	0.029 U
Benzo(k)fluoranthene	--	0.03 U	0.032 U	0.03 U	0.032 U	0.029 U
Benzo(g,h,i)perylene	--	0.03 U	0.032 U	0.03 U	0.032 U	0.029 U
Benzo(a)pyrene	--	0.03 U	0.032 U	0.03 U	0.032 U	0.029 U
Chrysene	--	0.03 U	0.032 U	0.03 U	0.032 U	0.029 U
Dibenzo(a,h)anthracene	--	0.03 U	0.032 U	0.03 U	0.032 U	0.029 U
Fluoranthene	--	0.03 U	0.035	0.087	0.032 U	0.029 U
Fluorene	--	0.036	0.032 U	0.03 U	0.032 U	0.029 U
Indeno(1,2,3-cd)pyrene	--	0.03 U	0.032 U	0.03 U	0.032 U	0.029 U
Naphthalene	--	1.1	0.11	0.051	0.032 U	0.029 U
Phenanthrene	--	0.063	0.071	0.083	0.032 U	0.029 U
Pyrene	--	0.03 U	0.056	0.13	0.032 U	0.029 U
PCBs (mg/kg)						
Aroclor 1016	--	0.093 U	0.1 U	0.096 U	0.1 U	0.094 U
Aroclor 1221	--	0.093 U	0.1 U	0.096 U	0.1 U	0.094 U
Aroclor 1232	--	0.093 U	0.1 U	0.096 U	0.1 U	0.094 U
Aroclor 1242	--	0.093 U	0.1 U	0.096 U	0.1 U	0.094 U
Aroclor 1248	--	0.093 U	0.1 U	0.096 U	0.1 U	0.094 U
Aroclor 1254	--	0.19 U	0.2 U	0.19 U	0.21 U	0.19 U
Aroclor 1260	--	0.19 U	0.2 U	0.19 U	0.21 U	0.19 U
Subtotal of PCBs:	50*	0.8	0.9	0.9	0.9	0.9
Subtotal:		2.5	1.6	1.6	1.4	1.3
Total Organic Content:	2,000**	35	35	33	36	33

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(4) ** 2,000 mg/kg is the natural organic carbon fraction (foc) default value for subsurface soil.
(5) PAHs - Polynuclear Aromatic Hydrocarbons.
(6) PCBs - Polychlorinated Biphenyls.
(7) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP16-003 15-16	SB18B-002 5-7	SB21-002 5-7	SB22-002 8-10	SB23-003 14-16
TCL Volatiles (mg/kg)						
Acetone	100,000	0.062 U	1.9 EJ	0.05 U	0.065	3.6 U
Benzene	870	0.012 U	12 J	0.5 EJ	0.0089 U	620
Bromodichloromethane	3,000	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
Bromoform	1,900	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
Bromomethane	3,200	0.025 U	0.06 UJ	0.02 U	0.018 U	1.4 U
2-Butanone	--	0.025 U	0.57 J	0.02 U	0.018 U	1.4 U
Carbon Disulfide	720	0.012 U	27 J	0.01 U	0.0089 U	0.71 U
Carbon Tetrachloride	1,100	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
Chlorobenzene	680	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
Chloroethane	--	0.025 U	0.06 UJ	0.02 U	0.018 U	1.4 U
Chloroform	2,900	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
Chloromethane	--	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
Dibromochloromethane	1,300	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
1,1-Dichloroethane	1,700	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
1,2-Dichloroethane	1,800	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
1,1-Dichloroethene	1,500	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
cis-1,2-Dichloroethene	--	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
trans-1,2-Dichloroethene	--	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
1,2-Dichloropropane	1,100	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
cis-1,3-Dichloropropene	1,400	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
trans-1,3-Dichloropropene	1,400	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
Ethylbenzene	400	0.012 U	8.1 J	0.83 EJ	0.0089 U	150
2-Hexanone	--	0.025 U	0.06 UJ	0.02 U	0.018 U	1.4 U
4-Methyl-2-Pentanone	--	0.025 U	0.06 UJ	0.02 U	0.018 U	1.4 U
Methylene	2,400	0.025 U	0.06 UJ	0.02 U	0.018 U	1.4 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.012 U	0.03 UJ	0.15 J	0.0089 U	64
1,1,2,2-Tetrachloroethane	--	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
Tetrachloroethene	240	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
Toluene	650	0.012 U	15 J	1 EJ	0.0089 U	650
1,1,1-Trichloroethane	1,200	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
1,1,2-Trichloroethane	1,800	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
Trichloroethene	1,300	0.012 U	0.03 UJ	0.01 U	0.0089 U	0.71 U
Vinyl Chloride	1,200	0.025 U	0.06 UJ	0.02 U	0.018 U	1.4 U
m,p-Xylene	420	0.012 U	26 J	0.84 EJ	0.0089 U	310
o-Xylene	410	0.012 U	15 J	0.46 EJ	0.0089 U	150
Xylenes, Total	320	NA	NA	NA	NA	NA
Subtotal:		0.6	106.6	4.2	0.4	1,972.3

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) J - Indicates an estimated value.
(4) E - Value above quantitation range.
(5) NA - Not analyzed.
(6) TCL - Target Compound List.
(7) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP16-003 15-16	SB18B-002 5-7	SB21-002 5-7	SB22-002 8-10	SB23-003 14-16
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
Bis(2-chloroethyl)ether	3,300	0.39 U	4.7 U	0.39 U	0.39 U	14 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	4.7 U	0.39 U	0.39 U	14 U
4-Bromophenyl phenyl ether	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
Butyl benzyl phthalate	930	0.39 U	4.7 U	0.39 U	0.39 U	14 U
Carbazole	--	0.39 U	4.7 U	2	0.39 U	460
4-Chloro-3-methylphenol	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
4-Chloroaniline	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
2-Chloronaphthalene	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
2-Chlorophenol	53,000	0.39 U	4.7 U	0.39 U	0.39 U	14 U
4-Chlorophenyl phenyl ether	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
Dibenzofuran	--	0.39 U	41 J	12	0.39 U	300
1,2-Dichlorobenzene	560	0.39 U	4.7 U	0.39 U	0.39 U	14 U
1,3-Dichlorobenzene	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
1,4-Dichlorobenzene	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
3,3´-Dichlorobenzidine	--	0.77 U	9.4 U	0.79 U	0.78 U	28 U
2,4-Dichlorophenol	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
Diethyl phthalate	2,000	0.39 U	4.7 U	0.39 U	0.39 U	14 U
Dimethyl phthalate	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
Di-n-butyl phthalate	2,300	0.39 U	4.7 U	0.39 U	0.39 U	14 U
2,4-Dimethylphenol	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
4,6-Dinitro-2-methylphenol	--	1.9 U	23 U	1.9 U	1.9 U	69 U
2,4-Dinitrophenol	--	1.9 U	23 U	1.9 U	1.9 U	69 U
2,4-Dinitrotoluene	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
2,6-Dinitrotoluene	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
Di-n-octyl phthalate	10,000	0.39 U	4.7 U	0.39 U	0.39 U	14 U
Hexachlorobenzene	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
Hexachlorobutadiene	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
Hexachlorocyclopentadiene	2,200	0.39 U	4.7 U	0.39 U	0.39 U	14 U
Hexachloroethane	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
Isophorone	4,600	0.39 U	4.7 U	0.39 U	0.39 U	14 U
2-Methylnaphthalene	--	0.39 U	5400 J	280	0.39 U	9700
2-Methylphenol	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
4-Methylphenol	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
2-Nitroaniline	--	1.9 U	23 U	1.9 U	1.9 U	69 U
3-Nitroaniline	--	1.9 U	23 U	1.9 U	1.9 U	69 U
4-Nitroaniline	--	1.9 U	23 U	1.9 U	1.9 U	69 U
Nitrobenzene	1,000	0.39 U	4.7 U	0.39 U	0.39 U	14 U
2-Nitrophenol	--	1.9 U	23 U	1.9 U	1.9 U	69 U
4-Nitrophenol	--	1.9 U	23 U	1.9 U	1.9 U	69 U
N-Nitrosodi-n-propylamine	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
N-Nitrosodiphenylamine	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.2 U	0.39 U	0.39 U	0.6 U
Pentachlorophenol	--	1.9 U	23 U	1.9 U	1.9 U	69 U
Phenol	--	0.39 U	4.7 U	0.49	0.39 U	14 U
1,2,4-Trichlorobenzene	3,200	0.39 U	4.7 U	0.39 U	0.39 U	14 U
2,4,5-Trichlorophenol	--	0.77 U	9.4 U	0.79 U	0.78 U	28 U
2,4,6-Trichlorophenol	--	0.39 U	4.7 U	0.39 U	0.39 U	14 U
Subtotal:		31.2	5,808.5	324.5	31.6	11,544.6

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) J - Indicates estimated value.
(4) TCL - Target Compound List.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP16-003 15-16	SB18B-002 5-7	SB21-002 5-7	SB22-002 8-10	SB23-003 14-16
PAHs (mg/kg)						
Acenaphthene	--	0.029 U	99 J	11	0.031	310
Acenaphthylene	--	0.029 U	100 J	10	0.029 U	2000
Anthracene	--	0.029 U	75 J	13	0.047	1000
Benzo(a)anthracene	--	0.029 U	14 J	4.4	0.029 U	810
Benzo(b)fluoranthene	--	0.029 U	14 J	3.5	0.029 U	110 U
Benzo(k)fluoranthene	--	0.029 U	12 J	3.9	0.029 U	230
Benzo(g,h,i)perylene	--	0.029 U	8.8 J	2.4	0.029 U	340
Benzo(a)pyrene	--	0.029 U	9.9 J	4.3	0.029 U	470
Chrysene	--	0.029 U	130 J	15	0.04	770
Dibenzo(a,h)anthracene	--	0.029 U	7.1 J	1.1	0.029 U	130
Fluoranthene	--	0.029 U	61 J	18	0.029 U	610
Fluorene	--	0.029 U	160 J	27	0.033	1500
Indeno(1,2,3-cd)pyrene	--	0.029 U	7.1 J	1.7	0.029 U	300
Naphthalene	--	0.029 U	4700 J	200	0.2	12000
Phenanthrene	--	0.029 U	360 J	77	0.13	3900
Pyrene	--	0.029 U	110 J	29	0.029 U	740
PCBs (mg/kg)						
Aroclor 1016	--	0.095 U	0.12 U	0.095 U	0.094 U	0.35 U
Aroclor 1221	--	0.095 U	0.12 U	0.095 U	0.094 U	0.35 U
Aroclor 1232	--	0.095 U	0.12 U	0.095 U	0.094 U	0.35 U
Aroclor 1242	--	0.095 U	0.12 U	0.28	0.094 U	0.35 U
Aroclor 1248	--	0.095 U	0.12 U	0.095 U	0.094 U	0.35 U
Aroclor 1254	--	0.19 U	0.23 U	0.19 U	0.19 U	0.69 U
Aroclor 1260	--	0.19 U	0.23 U	0.19 U	0.19 U	0.69 U
Subtotal of PCBs:	50*	0.9	1.1	1.0	0.9	3.1
Subtotal:		1.3	5,869.0	422.3	1.6	25,223.1
Total Organic Content:	2,000**	33	11,784	751	34	38,740

NOTES:
(1) -- Soil saturation limits not available.
(2) Shaded values exceed the soil attenuation capacity, or the allowable concentration of PCBs in soil (50 mg/kg)..
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) J - Indicates an estimated value.
(5) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(6) ** 2,000 mg/kg is the natural organic carbon fraction (foc) default value for subsurface soil.
(7) PAHs - Polynuclear Aromatic Hydrocarbons.
(8) PCBs - Polychlorinated Biphenyls.
(9) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB24-002 5-7	SB25-002 3-5	SB25-003 12-14	SB26-001 3-5	SB27-001 5-7
TCL Volatiles (mg/kg)						
Acetone	100,000	4.1 U	0.11	0.058 U	0.09 J	0.046
Benzene	870	61	0.22	0.012 U	50 J	0.0084 U
Bromodichloromethane	3,000	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
Bromoform	1,900	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
Bromomethane	3,200	1.7 U	0.034 U	0.023 U	0.035 U	0.017 U
2-Butanone	--	1.7 U	0.034 U	0.023 U	0.043 J	0.017 U
Carbon Disulfide	720	0.83 U	0.017 U	0.012 U	0.036 J	0.0084 U
Carbon Tetrachloride	1,100	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
Chlorobenzene	680	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
Chloroethane	--	1.7 U	0.034 U	0.023 U	0.035 U	0.017 U
Chloroform	2,900	0.83 U	0.017 U	0.012 U	0.023 J	0.0084 U
Chloromethane	--	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
Dibromochloromethane	1,300	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
1,1-Dichloroethane	1,700	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
1,2-Dichloroethane	1,800	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
1,1-Dichloroethene	1,500	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
cis-1,2-Dichloroethene	--	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
trans-1,2-Dichloroethene	--	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
1,2-Dichloropropane	1,100	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
cis-1,3-Dichloropropene	1,400	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
trans-1,3-Dichloropropene	1,400	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
Ethylbenzene	400	120	4.6	0.012 U	240 J	0.0084 U
2-Hexanone	--	1.7 U	0.034 U	0.023 U	0.035 U	0.017 U
4-Methyl-2-Pentanone	--	1.7 U	0.034 U	0.023 U	0.035 U	0.017 U
Methylene	2,400	1.7 U	0.034 U	0.023 U	0.035 U	0.017 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
1,1,2,2-Tetrachloroethane	--	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
Tetrachloroethene	240	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
Toluene	650	5.2	0.54	0.012 U	180 J	0.0084 U
1,1,1-Trichloroethane	1,200	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
1,1,2-Trichloroethane	1,800	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
Trichloroethene	1,300	0.83 U	0.017 U	0.012 U	0.017 U	0.0084 U
Vinyl Chloride	1,200	1.7 U	0.034 U	0.023 U	0.035 U	0.017 U
m,p-Xylene	420	98	6.7	0.012 U	340 J	0.0084 U
o-Xylene	410	55	6.8	0.012 U	190 J	0.0084 U
Xylenes, Total	320	NA	NA	NA	NA	NA
Subtotal:		373.5	19.6	0.5	1,000.7	0.4

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) J - Indicates an estimated value.
(4) NA - Not analyzed.
(5) TCL - Target Compound List.
(6) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB24-002 5-7	SB25-002 3-5	SB25-003 12-14	SB26-001 3-5	SB27-001 5-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
Bis(2-chloroethyl)ether	3,300	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
Bis(2-ethylhexyl)phthalate	31,000	0.41 U	1.2	0.42	2.1 U	0.38 U
4-Bromophenyl phenyl ether	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
Butyl benzyl phthalate	930	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
Carbazole	--	30	5.7	0.4 U	25	0.38 U
4-Chloro-3-methylphenol	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
4-Chloroaniline	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
2-Chloronaphthalene	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
2-Chlorophenol	53,000	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
4-Chlorophenyl phenyl ether	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
Dibenzofuran	--	19	4.7	0.4 U	49	0.38 U
1,2-Dichlorobenzene	560	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
1,3-Dichlorobenzene	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
1,4-Dichlorobenzene	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
3,3´-Dichlorobenzidine	--	0.82 U	0.81 U	0.8 U	4.2 U	0.76 U
2,4-Dichlorophenol	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
Diethyl phthalate	2,000	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
Dimethyl phthalate	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
Di-n-butyl phthalate	2,300	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
2,4-Dimethylphenol	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
4,6-Dinitro-2-methylphenol	--	2 U	2 U	1.9 U	10 U	1.8 U
2,4-Dinitrophenol	--	2 U	2 U	1.9 U	10 U	1.8 U
2,4-Dinitrotoluene	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
2,6-Dinitrotoluene	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
Di-n-octyl phthalate	10,000	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
Hexachlorobenzene	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
Hexachlorobutadiene	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
Hexachlorocyclopentadiene	2,200	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
Hexachloroethane	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
Isophorone	4,600	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
2-Methylnaphthalene	--	530	58	0.4	680	0.38 U
2-Methylphenol	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
4-Methylphenol	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
2-Nitroaniline	--	2 U	2 U	1.9 U	10 U	1.8 U
3-Nitroaniline	--	2 U	2 U	1.9 U	10 U	1.8 U
4-Nitroaniline	--	2 U	2 U	1.9 U	10 U	1.8 U
Nitrobenzene	1,000	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
2-Nitrophenol	--	2 U	2 U	1.9 U	10 U	1.8 U
4-Nitrophenol	--	2 U	2 U	1.9 U	10 U	1.8 U
N-Nitrosodi-n-propylamine	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
N-Nitrosodiphenylamine	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.017 U	0.017 U	0.09 U	0.38 U
Pentachlorophenol	--	2 U	2 U	1.9 U	10 U	1.8 U
Phenol	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
1,2,4-Trichlorobenzene	3,200	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
2,4,5-Trichlorophenol	--	0.82 U	0.81 U	0.8 U	4.2 U	0.76 U
2,4,6-Trichlorophenol	--	0.41 U	0.41 U	0.4 U	2.1 U	0.38 U
Subtotal:		610.6	100.8	31.6	913.9	30.4

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) TCL - Target Compound List.
(4) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB24-002 5-7	SB25-002 3-5	SB25-003 12-14	SB26-001 3-5	SB27-001 5-7
PAHs (mg/kg)						
Acenaphthene	--	52	19	0.03 U	86	0.029 U
Acenaphthylene	--	40	8.9	0.03 U	49	0.029 U
Anthracene	--	41	16	0.03 U	120	0.029 U
Benzo(a)anthracene	--	32	14	0.03 U	16	0.029 U
Benzo(b)fluoranthene	--	15	7	0.03 U	16 U	0.029 U
Benzo(k)fluoranthene	--	12	7	0.03 U	19	0.029 U
Benzo(g,h,i)perylene	--	4.8	3.7	0.03 U	17	0.029 U
Benzo(a)pyrene	--	18	9.2	0.03 U	19	0.029 U
Chrysene	--	31	15	0.03 U	53	0.029 U
Dibenzo(a,h)anthracene	--	0.4	0.94	0.03 U	6.9	0.029 U
Fluoranthene	--	37	20	0.03 U	110	0.029 U
Fluorene	--	71	26	0.067	95	0.029 U
Indeno(1,2,3-cd)pyrene	--	4.3	3.1 U	0.03 U	13	0.029 U
Naphthalene	--	380	28	0.6	190	0.029 U
Phenanthrene	--	190	62	0.15	270	0.031
Pyrene	--	91	32	0.03 U	140	0.029 U
PCBs (mg/kg)						
Aroclor 1016	--	0.1 U	0.098 U	0.096 U	0.1 U	0.094 U
Aroclor 1221	--	0.1 U	0.098 U	0.096 U	0.1 U	0.094 U
Aroclor 1232	--	0.1 U	0.098 U	0.096 U	0.1 U	0.094 U
Aroclor 1242	--	0.1 U	0.098 U	0.096 U	2.9	0.094 U
Aroclor 1248	--	0.1 U	0.098 U	0.096 U	0.1 U	0.094 U
Aroclor 1254	--	0.2 U	0.2 U	0.19 U	2	0.19 U
Aroclor 1260	--	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U
Subtotal of PCBs:	50*	0.9	0.9	0.9	5.5	0.9
Subtotal:		1,020.4	272.7	2.1	1,225.4	1.3
Total Organic Content:	2,000**	2,004	393	34	3,140	32

NOTES:
(1) -- Soil saturation limits not available.
(2) Shaded values exceed the soil attenuation capacity, or the allowable concentration of PCBs in soil (50 mg/kg).
(3) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(4) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(5) ** 2,000 mg/kg is the natural organic carbon fraction (foc) default value for subsurface soil.
(6) PAHs - Polynuclear Aromatic Hydrocarbons.
(7) PCBs - Polychlorinated Biphenyls.
(8) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB27-002 10-12	SB28-002 5-7	SB29-001 3-5	SB29-002 12-14	SB31-002 6-8
TCL Volatiles (mg/kg)						
Acetone	100,000	0.035 U	0.048	0.055 U	0.067 U	0.064 U
Benzene	870	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
Bromodichloromethane	3,000	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
Bromoform	1,900	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
Bromomethane	3,200	0.014 U	0.015 U	0.022 U	0.027 U	0.026 U
2-Butanone	--	0.014 U	0.015 U	0.022 U	0.027 U	0.026 U
Carbon Disulfide	720	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
Carbon Tetrachloride	1,100	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
Chlorobenzene	680	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
Chloroethane	--	0.014 U	0.015 U	0.022 U	0.027 U	0.026 U
Chloroform	2,900	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
Chloromethane	--	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
Dibromochloromethane	1,300	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
1,1-Dichloroethane	1,700	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
1,2-Dichloroethane	1,800	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
1,1-Dichloroethene	1,500	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
cis-1,2-Dichloroethene	--	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
trans-1,2-Dichloroethene	--	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
1,2-Dichloropropane	1,100	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
cis-1,3-Dichloropropene	1,400	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
trans-1,3-Dichloropropene	1,400	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
Ethylbenzene	400	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
2-Hexanone	--	0.014 U	0.015 U	0.022 U	0.027 U	0.026 U
4-Methyl-2-Pentanone	--	0.014 U	0.015 U	0.022 U	0.027 U	0.026 U
Methylene	2,400	0.014 U	0.015 U	0.022 U	0.027 U	0.026 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
1,1,2,2-Tetrachloroethane	--	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
Tetrachloroethene	240	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
Toluene	650	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
1,1,1-Trichloroethane	1,200	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
1,1,2-Trichloroethane	1,800	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
Trichloroethene	1,300	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
Vinyl Chloride	1,200	0.014 U	0.015 U	0.022 U	0.027 U	0.026 U
m,p-Xylene	420	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
o-Xylene	410	0.0069 U	0.0076 U	0.011 U	0.013 U	0.013 U
Xylenes, Total	320	NA	NA	NA	NA	NA
Subtotal:		0.3	0.4	0.5	0.6	0.6

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) NA - Not analyzed.
(4) TCL - Target Compound List.
(5) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB27-002 10-12	SB28-002 5-7	SB29-001 3-5	SB29-002 12-14	SB31-002 6-8
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
Bis(2-chloroethyl)ether	3,300	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
Bis(2-ethylhexyl)phthalate	31,000	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
4-Bromophenyl phenyl ether	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
Butyl benzyl phthalate	930	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
Carbazole	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
4-Chloro-3-methylphenol	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
4-Chloroaniline	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
2-Chloronaphthalene	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
2-Chlorophenol	53,000	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
4-Chlorophenyl phenyl ether	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
Dibenzofuran	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
1,2-Dichlorobenzene	560	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
1,3-Dichlorobenzene	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
1,4-Dichlorobenzene	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
3,3´-Dichlorobenzidine	--	0.76 U	0.79 U	0.78 U	0.78 U	0.74 U
2,4-Dichlorophenol	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
Diethyl phthalate	2,000	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
Dimethyl phthalate	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
Di-n-butyl phthalate	2,300	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
2,4-Dimethylphenol	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U
2,4-Dinitrophenol	--	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U
2,4-Dinitrotoluene	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
2,6-Dinitrotoluene	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
Di-n-octyl phthalate	10,000	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
Hexachlorobenzene	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
Hexachlorobutadiene	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
Hexachlorocyclopentadiene	2,200	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
Hexachloroethane	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
Isophorone	4,600	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
2-Methylnaphthalene	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
2-Methylphenol	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
4-Methylphenol	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
2-Nitroaniline	--	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U
3-Nitroaniline	--	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U
4-Nitroaniline	--	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U
Nitrobenzene	1,000	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
2-Nitrophenol	--	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U
4-Nitrophenol	--	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U
N-Nitrosodi-n-propylamine	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
N-Nitrosodiphenylamine	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
2, 2'-Oxybis(1-Chloropropane)	--	0.38 U	0.4 U	0.39 U	0.39 U	0.016 U
Pentachlorophenol	--	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U
Phenol	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
1,2,4-Trichlorobenzene	3,200	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
2,4,5-Trichlorophenol	--	0.76 U	0.79 U	0.78 U	0.78 U	0.74 U
2,4,6-Trichlorophenol	--	0.38 U	0.4 U	0.39 U	0.39 U	0.37 U
Subtotal:		31.2	32.0	31.6	31.6	29.6

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) TCL - Target Compound List.
(4) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB27-002 10-12	SB28-002 5-7	SB29-001 3-5	SB29-002 12-14	SB31-002 6-8
PAHs (mg/kg)						
Acenaphthene	--	0.029 U	0.03 U	0.035	0.029 U	0.028 U
Acenaphthylene	--	0.029 U	0.03 U	0.029 U	0.029 U	0.029
Anthracene	--	0.029 U	0.03 U	0.038	0.029 U	0.047
Benzo(a)anthracene	--	0.029 U	0.03 U	0.029 U	0.029 U	0.028 U
Benzo(b)fluoranthene	--	0.029 U	0.03 U	0.029 U	0.029 U	0.028 U
Benzo(k)fluoranthene	--	0.029 U	0.03 U	0.029 U	0.029 U	0.028 U
Benzo(g,h,i)perylene	--	0.029 U	0.03 U	0.029 U	0.029 U	0.028 U
Benzo(a)pyrene	--	0.029 U	0.03 U	0.029 U	0.029 U	0.028 U
Chrysene	--	0.029 U	0.03 U	0.052	0.029 U	0.075
Dibenzo(a,h)anthracene	--	0.029 U	0.03 U	0.029 U	0.029 U	0.028 U
Fluoranthene	--	0.029 U	0.03 U	0.029	0.029 U	0.075
Fluorene	--	0.029 U	0.03 U	0.033	0.029 U	0.03
Indeno(1,2,3-cd)pyrene	--	0.029 U	0.03 U	0.029 U	0.029 U	0.028 U
Naphthalene	--	0.029 U	0.03 U	0.094	0.029 U	0.11
Phenanthrene	--	0.047	0.03 U	0.14	0.036	0.17
Pyrene	--	0.029 U	0.03 U	0.044	0.029 U	0.13
PCBs (mg/kg)						
Aroclor 1016	--	0.093 U	0.096 U	0.094 U	0.095 U	0.093 U
Aroclor 1221	--	0.093 U	0.096 U	0.094 U	0.095 U	0.093 U
Aroclor 1232	--	0.093 U	0.096 U	0.094 U	0.095 U	0.093 U
Aroclor 1242	--	0.093 U	0.14	0.094 U	0.095 U	0.093 U
Aroclor 1248	--	0.093 U	0.096 U	0.094 U	0.095 U	0.093 U
Aroclor 1254	--	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Aroclor 1260	--	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Subtotal of PCBs:	50*	0.8	0.9	0.9	0.9	0.8
Subtotal:		1.3	1.4	1.5	1.3	1.7
Total Organic Content:	2,000**	33	34	34	34	32

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(4) ** 2,000 mg/kg is the natural organic carbon fraction (foc) default value for subsurface soil.
(5) PAHs - Polynuclear Aromatic Hydrocarbons.
(6) PCBs - Polychlorinated Biphenyls.
(7) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB32-002 3-5	SB33-002 5-7	SB33-003 10-12	SP34-002 5-7	SP35-002 6-7
TCL Volatiles (mg/kg)						
Acetone	100,000	0.081 U	0.12	0.064 U	0.14	0.13
Benzene	870	0.77	0.012 U	0.013 U	0.012 U	0.012 U
Bromodichloromethane	3,000	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
Bromoform	1,900	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
Bromomethane	3,200	0.033 U	0.024 U	0.026 U	0.024 U	0.023 U
2-Butanone	--	0.033 U	0.027	0.026 U	0.024 U	0.027
Carbon Disulfide	720	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
Carbon Tetrachloride	1,100	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
Chlorobenzene	680	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
Chloroethane	--	0.033 U	0.024 U	0.026 U	0.024 U	0.023 U
Chloroform	2,900	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
Chloromethane	--	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
Dibromochloromethane	1,300	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
1,1-Dichloroethane	1,700	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
1,2-Dichloroethane	1,800	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
1,1-Dichloroethene	1,500	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
cis-1,2-Dichloroethene	--	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
trans-1,2-Dichloroethene	--	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
1,2-Dichloropropane	1,100	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
cis-1,3-Dichloropropene	1,400	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
trans-1,3-Dichloropropene	1,400	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
Ethylbenzene	400	2	0.012 U	0.013 U	0.012 U	0.012 U
2-Hexanone	--	0.033 U	0.024 U	0.026 U	0.024 U	0.023 U
4-Methyl-2-Pentanone	--	0.033 U	0.024 U	0.026 U	0.024 U	0.023 U
Methylene	2,400	0.033 U	0.024 U	0.026 U	0.024 U	0.023 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
1,1,2,2-Tetrachloroethane	--	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
Tetrachloroethene	240	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
Toluene	650	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
1,1,1-Trichloroethane	1,200	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
1,1,2-Trichloroethane	1,800	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
Trichloroethene	1,300	0.016 U	0.012 U	0.013 U	0.012 U	0.012 U
Vinyl Chloride	1,200	0.033 U	0.024 U	0.026 U	0.024 U	0.023 U
m,p-Xylene	420	0.057	0.012 U	0.013 U	0.012 U	0.012 U
o-Xylene	410	0.034	0.025	0.013 U	0.012 U	0.012 U
Xylenes, Total	320	NA	NA	NA	NA	NA
Subtotal:		3.5	0.6	0.6	0.6	0.6

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) NA - Not analyzed.
(4) TCL - Target Compound List.
(5) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB32-002 3-5	SB33-002 5-7	SB33-003 10-12	SP34-002 5-7	SP35-002 6-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
Bis(2-chloroethyl)ether	3,300	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	0.87	0.4 U	0.39 U	0.4 U	0.39 U
4-Bromophenyl phenyl ether	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
Butyl benzyl phthalate	930	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
Carbazole	--	1.3	0.4 U	0.39 U	0.4 U	0.39 U
4-Chloro-3-methylphenol	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
4-Chloroaniline	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
2-Chloronaphthalene	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
2-Chlorophenol	53,000	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
Dibenzofuran	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
1,2-Dichlorobenzene	560	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
1,3-Dichlorobenzene	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
1,4-Dichlorobenzene	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
3,3´-Dichlorobenzidine	--	0.78 U	0.81 U	0.79 U	0.8 U	0.79 U
2,4-Dichlorophenol	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
Diethyl phthalate	2,000	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
Dimethyl phthalate	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
Di-n-butyl phthalate	2,300	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
2,4-Dimethylphenol	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	2 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrophenol	--	1.9 U	2 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
2,6-Dinitrotoluene	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
Di-n-octyl phthalate	10,000	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
Hexachlorobenzene	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
Hexachlorobutadiene	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
Hexachlorocyclopentadiene	2,200	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
Hexachloroethane	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
Isophorone	4,600	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
2-Methylnaphthalene	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
2-Methylphenol	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
4-Methylphenol	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
2-Nitroaniline	--	1.9 U	2 U	1.9 U	1.9 U	1.9 U
3-Nitroaniline	--	1.9 U	2 U	1.9 U	1.9 U	1.9 U
4-Nitroaniline	--	1.9 U	2 U	1.9 U	1.9 U	1.9 U
Nitrobenzene	1,000	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
2-Nitrophenol	--	1.9 U	2 U	1.9 U	1.9 U	1.9 U
4-Nitrophenol	--	1.9 U	2 U	1.9 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
N-Nitrosodiphenylamine	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U
Pentachlorophenol	--	1.9 U	2 U	1.9 U	1.9 U	1.9 U
Phenol	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
1,2,4-Trichlorobenzene	3,200	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
2,4,5-Trichlorophenol	--	0.78 U	0.81 U	0.79 U	0.8 U	0.79 U
2,4,6-Trichlorophenol	--	0.39 U	0.4 U	0.39 U	0.4 U	0.39 U
Subtotal:		32.6	32.4	31.2	31.6	31.2

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) TCL - Target Compound List.
(4) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB32-002 3-5	SB33-002 5-7	SB33-003 10-12	SP34-002 5-7	SP35-002 6-7
PAHs (mg/kg)						
Acenaphthene	--	0.84	0.031 U	0.03 U	0.12	0.03 U
Acenaphthylene	--	0.99	0.031 U	0.03 U	0.086	0.03 U
Anthracene	--	0.98	0.031 U	0.03 U	0.17	0.03 U
Benzo(a)anthracene	--	1.8	0.031 U	0.03 U	0.094	0.064
Benzo(b)fluoranthene	--	0.87	0.031 U	0.03 U	0.13	0.041
Benzo(k)fluoranthene	--	0.75	0.031 U	0.03 U	0.14	0.056
Benzo(g,h,i)perylene	--	0.38	0.031 U	0.03 U	0.36	0.037
Benzo(a)pyrene	--	1.1	0.031 U	0.03 U	0.14	0.072
Chrysene	--	1.7	0.031 U	0.041	0.39	0.066
Dibenzo(a,h)anthracene	--	0.3 U	0.031 U	0.03 U	0.11	0.03 U
Fluoranthene	--	2.8	0.031 U	0.039	0.33	0.074
Fluorene	--	0.87	0.031 U	0.03 U	0.31	0.03 U
Indeno(1,2,3-cd)pyrene	--	0.34	0.031 U	0.03 U	0.24	0.036
Naphthalene	--	2.1	0.14	0.042	0.03 U	0.03 U
Phenanthrene	--	3.7	0.076	0.083	0.13	0.03 U
Pyrene	--	4	0.047	0.033	1.2	0.074
PCBs (mg/kg)						
Aroclor 1016	--	0.093 U	0.096 U	0.094 U	0.098 U	0.095 U
Aroclor 1221	--	0.093 U	0.096 U	0.094 U	0.098 U	0.095 U
Aroclor 1232	--	0.093 U	0.096 U	0.094 U	0.098 U	0.095 U
Aroclor 1242	--	0.15	0.096 U	0.094 U	0.098 U	0.095 U
Aroclor 1248	--	0.093 U	0.096 U	0.094 U	0.098 U	0.095 U
Aroclor 1254	--	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U
Aroclor 1260	--	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U
Subtotal of PCBs:	50*	0.9	0.9	0.9	0.9	0.9
Subtotal:		24.4	1.5	1.4	4.9	1.6
Total Organic Content:	2,000**	61	35	33	37	33

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(4) ** 2,000 mg/kg is the natural organic carbon fraction (foc) default value for subsurface soil.
(5) PAHs - Polynuclear Aromatic Hydrocarbons.
(6) PCBs - Polychlorinated Biphenyls.
(7) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP35-003 12-13	SP37-002 8-9	SP37-003 12-13	SB38-001 5-7	SP39-002 5-6
TCL Volatiles (mg/kg)						
Acetone	100,000	0.042 U	0.082	0.066 J	0.12 J	0.11
Benzene	870	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
Bromodichloromethane	3,000	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
Bromoform	1,900	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
Bromomethane	3,200	0.017 U	0.02 U	0.023 U	0.029 UJ	0.026 U
2-Butanone	--	0.017 U	0.02 U	0.023 U	0.029 UJ	0.027
Carbon Disulfide	720	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
Carbon Tetrachloride	1,100	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
Chlorobenzene	680	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
Chloroethane	--	0.017 U	0.02 U	0.023 U	0.029 UJ	0.026 U
Chloroform	2,900	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
Chloromethane	--	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
Dibromochloromethane	1,300	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
1,1-Dichloroethane	1,700	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
1,2-Dichloroethane	1,800	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
1,1-Dichloroethene	1,500	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
cis-1,2-Dichloroethene	--	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
trans-1,2-Dichloroethene	--	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
1,2-Dichloropropane	1,100	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
cis-1,3-Dichloropropene	1,400	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
trans-1,3-Dichloropropene	1,400	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
Ethylbenzene	400	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
2-Hexanone	--	0.017 U	0.02 U	0.023 U	0.029 UJ	0.026 U
4-Methyl-2-Pentanone	--	0.017 U	0.02 U	0.023 U	0.029 UJ	0.026 U
Methylene	2,400	0.017 U	0.02 U	0.023 U	0.029 UJ	0.026 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
1,1,2,2-Tetrachloroethane	--	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
Tetrachloroethene	240	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
Toluene	650	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
1,1,1-Trichloroethane	1,200	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
1,1,2-Trichloroethane	1,800	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
Trichloroethene	1,300	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
Vinyl Chloride	1,200	0.017 U	0.02 U	0.023 U	0.029 UJ	0.026 U
m,p-Xylene	420	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
o-Xylene	410	0.0084 U	0.0099 U	0.012 U	0.014 UJ	0.013 U
Xylenes, Total	320	NA	NA	NA	NA	NA
Subtotal:		0.4	0.5	0.6	0.7	0.6

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) J - Indicates an estimated value.
(4) NA - Not analyzed.
(5) TCL - Target Compound List.
(6) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP35-003 12-13	SP37-002 8-9	SP37-003 12-13	SB38-001 5-7	SP39-002 5-6
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
Bis(2-chloroethyl)ether	3,300	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
4-Bromophenyl phenyl ether	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
Butyl benzyl phthalate	930	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
Carbazole	--	0.39 U	0.39 U	0.38 U	0.53	0.4 U
4-Chloro-3-methylphenol	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
4-Chloroaniline	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
2-Chloronaphthalene	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
2-Chlorophenol	53,000	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
Dibenzofuran	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
1,2-Dichlorobenzene	560	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
1,3-Dichlorobenzene	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
1,4-Dichlorobenzene	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
3,3´-Dichlorobenzidine	--	0.77 U	0.77 U	0.75 U	0.83 U	0.8 U
2,4-Dichlorophenol	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
Diethyl phthalate	2,000	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
Dimethyl phthalate	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
Di-n-butyl phthalate	2,300	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
2,4-Dimethylphenol	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.9 U	1.8 U	2 U	1.9 U
2,4-Dinitrophenol	--	1.9 U	1.9 U	1.8 U	2 U	1.9 U
2,4-Dinitrotoluene	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
2,6-Dinitrotoluene	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
Di-n-octyl phthalate	10,000	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
Hexachlorobenzene	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
Hexachlorobutadiene	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
Hexachlorocyclopentadiene	2,200	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
Hexachloroethane	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
Isophorone	4,600	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
2-Methylnaphthalene	--	0.39 U	0.39 U	0.38 U	1.7	0.4 U
2-Methylphenol	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
4-Methylphenol	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
2-Nitroaniline	--	1.9 U	1.9 U	1.8 U	2 U	1.9 U
3-Nitroaniline	--	1.9 U	1.9 U	1.8 U	2 U	1.9 U
4-Nitroaniline	--	1.9 U	1.9 U	1.8 U	2 U	1.9 U
Nitrobenzene	1,000	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
2-Nitrophenol	--	1.9 U	1.9 U	1.8 U	2 U	1.9 U
4-Nitrophenol	--	1.9 U	1.9 U	1.8 U	2 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
N-Nitrosodiphenylamine	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.016 U	0.018 U	0.017 U
Pentachlorophenol	--	1.9 U	1.9 U	1.8 U	2 U	1.9 U
Phenol	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
1,2,4-Trichlorobenzene	3,200	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
2,4,5-Trichlorophenol	--	0.77 U	0.77 U	0.75 U	0.83 U	0.8 U
2,4,6-Trichlorophenol	--	0.39 U	0.39 U	0.38 U	0.42 U	0.4 U
Subtotal:		31.2	31.2	30.0	34.6	31.6

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) TCL - Target Compound List.
(4) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP35-003 12-13	SP37-002 8-9	SP37-003 12-13	SB38-001 5-7	SP39-002 5-6
PAHs (mg/kg)						
Acenaphthene	--	0.029 U	0.029 U	0.028 U	0.42	0.056
Acenaphthylene	--	0.029 U	0.029 U	0.028 U	0.37	0.03 U
Anthracene	--	0.029 U	0.029 U	0.028 U	1.7	0.29
Benzo(a)anthracene	--	0.029 U	0.029 U	0.028 U	1.9	0.13
Benzo(b)fluoranthene	--	0.029 U	0.029 U	0.028 U	1.1	0.58
Benzo(k)fluoranthene	--	0.029 U	0.029 U	0.028 U	0.96	0.65
Benzo(g,h,i)perylene	--	0.029 U	0.029 U	0.028 U	0.46	0.31
Benzo(a)pyrene	--	0.029 U	0.029 U	0.028 U	0.89	0.64
Chrysene	--	0.029 U	0.029 U	0.028 U	2.3	1.1
Dibenzo(a,h)anthracene	--	0.029 U	0.029 U	0.028 U	0.15	0.23
Fluoranthene	--	0.029 U	0.029 U	0.028 U	4.1	1.6
Fluorene	--	0.029 U	0.029 U	0.028 U	0.7	0.056
Indeno(1,2,3-cd)pyrene	--	0.029 U	0.029 U	0.028 U	0.38	0.3 U
Naphthalene	--	0.029 U	0.056	0.028 U	2	0.032
Phenanthrene	--	0.029 U	0.029 U	0.028 U	5.7	0.81
Pyrene	--	0.029 U	0.029 U	0.028 U	4.7	1.7
PCBs (mg/kg)						
Aroclor 1016	--	0.095 U	0.092 U	0.092 U	0.1 U	0.1 U
Aroclor 1221	--	0.095 U	0.092 U	0.092 U	0.1 U	0.1 U
Aroclor 1232	--	0.095 U	0.092 U	0.092 U	0.1 U	0.1 U
Aroclor 1242	--	0.095 U	0.092 U	0.092 U	0.1 U	0.1 U
Aroclor 1248	--	0.095 U	0.092 U	0.092 U	0.1 U	0.1 U
Aroclor 1254	--	0.19 U	0.18 U	0.18 U	0.2 U	0.2 U
Aroclor 1260	--	0.19 U	0.18 U	0.18 U	0.2 U	0.2 U
Subtotal of PCBs:	50*	0.9	0.8	0.8	0.9	0.9
Subtotal:		1.3	1.3	1.3	28.7	9.4
Total Organic Content:	2,000**	33	33	32	64	42

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(4) ** 2,000 mg/kg is the natural organic carbon fraction (foc) default value for subsurface soil.
(5) PAHs - Polynuclear Aromatic Hydrocarbons.
(6) PCBs - Polychlorinated Biphenyls.
(7) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP39-003 10-11	SP40-002 7-8	SP40-003 14-15	SP43-002 3.5-4.5	SP43-003 11-12
TCL Volatiles (mg/kg)						
Acetone	100,000	0.047 U	0.071	0.043 U	0.063 U	0.041 U
Benzene	870	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
Bromodichloromethane	3,000	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
Bromoform	1,900	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
Bromomethane	3,200	0.019 U	0.02 U	0.017 U	0.025 U	0.017 U
2-Butanone	--	0.019 U	0.02 U	0.017 U	0.025 U	0.017 U
Carbon Disulfide	720	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
Carbon Tetrachloride	1,100	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
Chlorobenzene	680	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
Chloroethane	--	0.019 U	0.02 U	0.017 U	0.025 U	0.017 U
Chloroform	2,900	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
Chloromethane	--	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
Dibromochloromethane	1,300	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
1,1-Dichloroethane	1,700	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
1,2-Dichloroethane	1,800	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
1,1-Dichloroethene	1,500	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
cis-1,2-Dichloroethene	--	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
trans-1,2-Dichloroethene	--	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
1,2-Dichloropropane	1,100	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
cis-1,3-Dichloropropene	1,400	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
trans-1,3-Dichloropropene	1,400	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
Ethylbenzene	400	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
2-Hexanone	--	0.019 U	0.02 U	0.017 U	0.025 U	0.017 U
4-Methyl-2-Pentanone	--	0.019 U	0.02 U	0.017 U	0.025 U	0.017 U
Methylene	2,400	0.019 U	0.02 U	0.017 U	0.025 U	0.017 U
Methyl tert-butyl ether	8,800	NA	NA	NA	NA	NA
Styrene	1,500	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
1,1,2,2-Tetrachloroethane	--	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
Tetrachloroethene	240	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
Toluene	650	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
1,1,1-Trichloroethane	1,200	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
1,1,2-Trichloroethane	1,800	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
Trichloroethene	1,300	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
Vinyl Chloride	1,200	0.019 U	0.02 U	0.017 U	0.025 U	0.017 U
m,p-Xylene	420	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
o-Xylene	410	0.0094 U	0.01 U	0.0087 U	0.013 U	0.0083 U
Xylenes, Total	320	NA	NA	NA	NA	NA
Subtotal:		0.4	0.5	0.4	0.6	0.4

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) NA - Not analyzed.
(4) TCL - Target Compound List.
(5) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP39-003 10-11	SP40-002 7-8	SP40-003 14-15	SP43-002 3.5-4.5	SP43-003 11-12
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
Bis(2-chloroethyl)ether	3,300	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
Bis(2-ethylhexyl)phthalate	31,000	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
4-Bromophenyl phenyl ether	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
Butyl benzyl phthalate	930	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
Carbazole	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
4-Chloro-3-methylphenol	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
4-Chloroaniline	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
2-Chloronaphthalene	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
2-Chlorophenol	53,000	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
4-Chlorophenyl phenyl ether	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
Dibenzofuran	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
1,2-Dichlorobenzene	560	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
1,3-Dichlorobenzene	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
1,4-Dichlorobenzene	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
3,3´-Dichlorobenzidine	--	0.77 U	0.77 U	0.77 U	0.78 U	0.78 U
2,4-Dichlorophenol	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
Diethyl phthalate	2,000	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
Dimethyl phthalate	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
Di-n-butyl phthalate	2,300	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
2,4-Dimethylphenol	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrophenol	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
2,6-Dinitrotoluene	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
Di-n-octyl phthalate	10,000	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
Hexachlorobenzene	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
Hexachlorobutadiene	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
Hexachlorocyclopentadiene	2,200	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
Hexachloroethane	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
Isophorone	4,600	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
2-Methylnaphthalene	--	0.38 U	0.39 U	0.39 U	1.6	0.39 U
2-Methylphenol	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
4-Methylphenol	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
2-Nitroaniline	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
3-Nitroaniline	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Nitroaniline	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Nitrobenzene	1,000	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
2-Nitrophenol	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Nitrophenol	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
N-Nitrosodiphenylamine	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
2, 2'-Oxybis(1-Chloropropane)	--	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U
Pentachlorophenol	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
1,2,4-Trichlorobenzene	3,200	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
2,4,5-Trichlorophenol	--	0.77 U	0.77 U	0.77 U	0.78 U	0.78 U
2,4,6-Trichlorophenol	--	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U
Subtotal:		30.8	31.2	31.2	32.4	31.2

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) TCL - Target Compound List.
(4) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP39-003 10-11	SP40-002 7-8	SP40-003 14-15	SP43-002 3.5-4.5	SP43-003 11-12
PAHs (mg/kg)						
Acenaphthene	--	0.029 U	0.029 U	0.029 U	0.062	0.029 U
Acenaphthylene	--	0.029 U	0.029 U	0.029 U	0.074	0.029 U
Anthracene	--	0.03	0.029 U	0.029 U	0.029	0.029 U
Benzo(a)anthracene	--	0.029 U	0.029 U	0.029 U	0.09	0.029 U
Benzo(b)fluoranthene	--	0.029 U	0.029 U	0.029 U	0.13	0.029 U
Benzo(k)fluoranthene	--	0.029 U	0.029 U	0.029 U	0.11	0.029 U
Benzo(g,h,i)perylene	--	0.029 U	0.029 U	0.029 U	0.087	0.029 U
Benzo(a)pyrene	--	0.029 U	0.029 U	0.029 U	0.13	0.029 U
Chrysene	--	0.056	0.029 U	0.029 U	0.16	0.029 U
Dibenzo(a,h)anthracene	--	0.029 U	0.029 U	0.029 U	0.038	0.029 U
Fluoranthene	--	0.081	0.029 U	0.029 U	0.17	0.029 U
Fluorene	--	0.029 U	0.029 U	0.029 U	0.16	0.029 U
Indeno(1,2,3-cd)pyrene	--	0.029 U	0.029 U	0.029 U	0.076	0.029 U
Naphthalene	--	0.029 U	0.029 U	0.029 U	0.22	0.029 U
Phenanthrene	--	0.071	0.029 U	0.029 U	0.38	0.029 U
Pyrene	--	0.076	0.029 U	0.029 U	0.088	0.029 U
PCBs (mg/kg)						
Aroclor 1016	--	0.095 U	0.093 U	0.094 U	0.099 U	0.097 U
Aroclor 1221	--	0.095 U	0.093 U	0.094 U	0.099 U	0.097 U
Aroclor 1232	--	0.095 U	0.093 U	0.094 U	0.099 U	0.097 U
Aroclor 1242	--	0.14	0.093 U	0.094 U	0.28	0.097 U
Aroclor 1248	--	0.095 U	0.093 U	0.094 U	0.099 U	0.097 U
Aroclor 1254	--	0.19 U	0.19 U	0.19 U	0.26	0.19 U
Aroclor 1260	--	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U
Subtotal of PCBs:	50*	0.9	0.8	0.9	1.1	0.9
Subtotal:		1.5	1.3	1.3	3.1	1.3
Total Organic Content:	2,000**	33	33	33	36	33

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(4) ** 2,000 mg/kg is the natural organic carbon fraction (foc) default value for subsurface soil.
(5) PAHs - Polynuclear Aromatic Hydrocarbons.
(6) PCBs - Polychlorinated Biphenyls.
(7) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP44-002 6-7	SP44-003 12-13	SB45-002 3-5	SB46-001 10 - 12	SB46-002 16 -18
TCL Volatiles (mg/kg)						
Acetone	100,000	0.082	0.069 U	0.09 U	0.036 U	0.031 U
Benzene	870	0.0089 U	0.014 U	0.48	0.0073 U	0.0062 U
Bromodichloromethane	3,000	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
Bromoform	1,900	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
Bromomethane	3,200	0.018 U	0.028 U	0.036 U	0.015 U	0.012 U
2-Butanone	--	0.018 U	0.028 U	0.036 U	0.015 U	0.012 U
Carbon Disulfide	720	0.0089 U	0.014 U	0.037	0.0073 U	0.0062 U
Carbon Tetrachloride	1,100	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
Chlorobenzene	680	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
Chloroethane	--	0.018 U	0.028 U	0.036 U	0.015 U	0.012 U
Chloroform	2,900	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
Chloromethane	--	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
Dibromochloromethane	1,300	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
1,1-Dichloroethane	1,700	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
1,2-Dichloroethane	1,800	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
1,1-Dichloroethene	1,500	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
cis-1,2-Dichloroethene	--	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
trans-1,2-Dichloroethene	--	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
1,2-Dichloropropane	1,100	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
cis-1,3-Dichloropropene	1,400	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
trans-1,3-Dichloropropene	1,400	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
Ethylbenzene	400	0.0089 U	0.014 U	5.1	0.0073 U	0.0062 U
2-Hexanone	--	0.018 U	0.028 U	0.036 U	0.015 U	0.012 U
4-Methyl-2-Pentanone	--	0.018 U	0.028 U	0.036 U	0.015 U	0.012 U
Methylene	2,400	0.018 U	0.028 U	0.036 U	0.015 U	0.012 U
Methyl tert-butyl ether	8,800	NA	NA	NA	0.0073 U	0.0062 U
Styrene	1,500	0.0089 U	0.014 U	2.2	0.0073 U	0.0062 U
1,1,2,2-Tetrachloroethane	--	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
Tetrachloroethene	240	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
Toluene	650	0.0089 U	0.014 U	4.4	0.0073 U	0.0062 U
1,1,1-Trichloroethane	1,200	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
1,1,2-Trichloroethane	1,800	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
Trichloroethene	1,300	0.0089 U	0.014 U	0.018 U	0.0073 U	0.0062 U
Vinyl Chloride	1,200	0.018 U	0.028 U	0.036 U	0.0073 U	0.0062 U
m,p-Xylene	420	0.0089 U	0.014 U	11	NA	NA
o-Xylene	410	0.0089 U	0.014 U	6	NA	NA
Xylenes, Total	320	NA	NA	NA	0.015 U	0.012 U
Subtotal:		0.4	0.6	29.9	0.3	0.3

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) NA - Not analyzed.
(4) TCL - Target Compound List.
(5) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP44-002 6-7	SP44-003 12-13	SB45-002 3-5	SB46-001 10 - 12	SB46-002 16 -18
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
Bis(2-chloroethyl)ether	3,300	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
Bis(2-ethylhexyl)phthalate	31,000	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
4-Bromophenyl phenyl ether	--	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
Butyl benzyl phthalate	930	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
Carbazole	--	0.4 U	0.39 U	28	0.87	0.42 U
4-Chloro-3-methylphenol	--	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
4-Chloroaniline	--	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
2-Chloronaphthalene	--	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
2-Chlorophenol	53,000	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
4-Chlorophenyl phenyl ether	--	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
Dibenzofuran	--	0.4 U	0.39 U	22	1.8	0.42 U
1,2-Dichlorobenzene	560	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
1,3-Dichlorobenzene	--	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
1,4-Dichlorobenzene	--	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
3,3´-Dichlorobenzidine	--	0.79 U	0.77 U	2.4 U	0.86 U	0.83 U
2,4-Dichlorophenol	--	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
Diethyl phthalate	2,000	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
Dimethyl phthalate	--	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
Di-n-butyl phthalate	2,300	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
2,4-Dimethylphenol	--	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
4,6-Dinitro-2-methylphenol	--	1.9 U	1.9 U	5.8 U	2.1 U	2 U
2,4-Dinitrophenol	--	1.9 U	1.9 U	5.8 U	2.1 U	2 U
2,4-Dinitrotoluene	--	0.4 U	0.39 U	1.2 U	0.22 U	0.21 U
2,6-Dinitrotoluene	--	0.4 U	0.39 U	1.2 U	0.22 U	0.21 U
Di-n-octyl phthalate	10,000	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
Hexachlorobenzene	--	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
Hexachlorobutadiene	--	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
Hexachlorocyclopentadiene	2,200	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
Hexachloroethane	--	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
Isophorone	4,600	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
2-Methylnaphthalene	--	0.4 U	0.39 U	5.3	2.8	0.42 U
2-Methylphenol	--	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
4-Methylphenol	--	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
2-Nitroaniline	--	1.9 U	1.9 U	5.8 U	2.1 U	2 U
3-Nitroaniline	--	1.9 U	1.9 U	5.8 U	2.1 U	2 U
4-Nitroaniline	--	1.9 U	1.9 U	5.8 U	2.1 U	2 U
Nitrobenzene	1,000	0.4 U	0.39 U	1.2 U	0.22 U	0.21 U
2-Nitrophenol	--	1.9 U	1.9 U	5.8 U	0.43 U	0.42 U
4-Nitrophenol	--	1.9 U	1.9 U	5.8 U	2.1 U	2 U
N-Nitrosodi-n-propylamine	--	0.4 U	0.39 U	1.2 U	0.22 U	0.21 U
N-Nitrosodiphenylamine	--	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
2, 2'-Oxybis(1-Chloropropane)	--	0.017 U	0.016 U	1.2 U	0.43 U	0.42 U
Pentachlorophenol	--	1.9 U	1.9 U	5.8 U	2.1 U	2 U
Phenol	--	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
1,2,4-Trichlorobenzene	3,200	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
2,4,5-Trichlorophenol	--	0.79 U	0.77 U	2.4 U	0.86 U	0.83 U
2,4,6-Trichlorophenol	--	0.4 U	0.39 U	1.2 U	0.43 U	0.42 U
Subtotal:		31.6	31.2	148.5	36.5	31.2

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) TCL - Target Compound List.
(4) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SP44-002 6-7	SP44-003 12-13	SB45-002 3-5	SB46-001 10 - 12	SB46-002 16 -18
PAHs (mg/kg)						
Acenaphthene	--	0.03 U	0.029 U	12	4.9	0.17
Acenaphthylene	--	0.03 U	0.029 U	21	0.73	0.033
Anthracene	--	0.03 U	0.029 U	47	6.4	0.19
Benzo(a)anthracene	--	0.03 U	0.029 U	14	5.8	0.17
Benzo(b)fluoranthene	--	0.03 U	0.029 U	7	4.5	0.075
Benzo(k)fluoranthene	--	0.03 U	0.029 U	6.2	4.1	0.12
Benzo(g,h,i)perylene	--	0.03 U	0.029 U	3.4	2.7	0.046
Benzo(a)pyrene	--	0.03 U	0.029 U	7	5.9	0.086
Chrysene	--	0.03 U	0.029 U	25	5.4	0.2
Dibenzo(a,h)anthracene	--	0.03 U	0.029 U	1.1	0.83	0.031 U
Fluoranthene	--	0.03 U	0.029 U	33	13	0.42
Fluorene	--	0.03 U	0.029 U	60	3.8	0.13
Indeno(1,2,3-cd)pyrene	--	0.03 U	0.029 U	2.8	2.4	0.035
Naphthalene	--	0.03 U	0.029 U	360	6.5	0.4
Phenanthrene	--	0.03 U	0.029 U	170	17	0.6
Pyrene	--	0.03 U	0.029 U	60	14	0.52
PCBs (mg/kg)						
Aroclor 1016	--	0.096 U	0.093 U	0.095 U	NA	NA
Aroclor 1221	--	0.096 U	0.093 U	0.095 U	NA	NA
Aroclor 1232	--	0.096 U	0.093 U	0.095 U	NA	NA
Aroclor 1242	--	0.096 U	0.093 U	0.16	NA	NA
Aroclor 1248	--	0.096 U	0.093 U	0.095 U	NA	NA
Aroclor 1254	--	0.19 U	0.19 U	0.19 U	NA	NA
Aroclor 1260	--	0.19 U	0.19 U	0.19 U	NA	NA
Subtotal of PCBs:	50*	0.9	0.8	0.9	NA	NA
Subtotal:		1.3	1.3	830.4	98.0	3.2
Total Organic Content:	2,000**	33	33	1,009	135	35

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) NA - Not analyzed.
(4) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(5) ** 2,000 mg/kg is the natural organic carbon fraction (foc) default value for subsurface soil.
(6) PAHs - Polynuclear Aromatic Hydrocarbons.
(7) PCBs - Polychlorinated Biphenyls.
(8) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10	SB48-002 18 - 20	SB49-001 8 - 10
TCL Volatiles (mg/kg)						
Acetone	100,000	0.035 U	0.032 U	0.036 U	0.03 U	0.029 U
Benzene	870	0.05	0.0065 U	0.0072 U	0.0059 U	0.0059 U
Bromodichloromethane	3,000	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
Bromoform	1,900	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
Bromomethane	3,200	0.014 U	0.013 U	0.014 U	0.012 U	0.012 U
2-Butanone	--	0.014 U	0.013 U	0.014 U	0.012 U	0.012 U
Carbon Disulfide	720	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
Carbon Tetrachloride	1,100	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
Chlorobenzene	680	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
Chloroethane	--	0.014 U	0.013 U	0.014 U	0.012 U	0.012 U
Chloroform	2,900	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
Chloromethane	--	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
Dibromochloromethane	1,300	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
1,1-Dichloroethane	1,700	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
1,2-Dichloroethane	1,800	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
1,1-Dichloroethene	1,500	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
cis-1,2-Dichloroethene	--	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
trans-1,2-Dichloroethene	--	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
1,2-Dichloropropane	1,100	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
cis-1,3-Dichloropropene	1,400	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
trans-1,3-Dichloropropene	1,400	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
Ethylbenzene	400	0.33	0.0065 U	0.0072 U	0.0059 U	0.0059 U
2-Hexanone	--	0.014 U	0.013 U	0.014 U	0.012 U	0.012 U
4-Methyl-2-Pentanone	--	0.014 U	0.013 U	0.014 U	0.012 U	0.012 U
Methylene	2,400	0.014 U	0.013 U	0.014 U	0.012 U	0.012 U
Methyl tert-butyl ether	8,800	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
Styrene	1,500	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
1,1,2,2-Tetrachloroethane	--	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
Tetrachloroethene	240	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
Toluene	650	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
1,1,1-Trichloroethane	1,200	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
1,1,2-Trichloroethane	1,800	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
Trichloroethene	1,300	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
Vinyl Chloride	1,200	0.0071 U	0.0065 U	0.0072 U	0.0059 U	0.0059 U
m,p-Xylene	420	NA	NA	NA	NA	NA
o-Xylene	410	NA	NA	NA	NA	NA
Xylenes, Total	320	0.26	0.013 U	0.014 U	0.012 U	0.012 U
Subtotal:		0.9	0.3	0.3	0.3	0.3

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) NA - Not analyzed.
(4) TCL - Target Compound List.
(5) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10	SB48-002 18 - 20	SB49-001 8 - 10
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
Bis(2-chloroethyl)ether	3,300	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
Bis(2-ethylhexyl)phthalate	31,000	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
4-Bromophenyl phenyl ether	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
Butyl benzyl phthalate	930	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
Carbazole	--	1.1	0.41 U	0.57	0.41 U	0.42 U
4-Chloro-3-methylphenol	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
4-Chloroaniline	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
2-Chloronaphthalene	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
2-Chlorophenol	53,000	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
4-Chlorophenyl phenyl ether	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
Dibenzofuran	--	2.5	0.41 U	1.5	0.41 U	0.42 U
1,2-Dichlorobenzene	560	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
1,3-Dichlorobenzene	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
1,4-Dichlorobenzene	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
3,3´-Dichlorobenzidine	--	0.88 U	0.82 U	0.89 U	0.82 U	0.84 U
2,4-Dichlorophenol	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
Diethyl phthalate	2,000	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
Dimethyl phthalate	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
Di-n-butyl phthalate	2,300	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
2,4-Dimethylphenol	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
4,6-Dinitro-2-methylphenol	--	2.1 U	2 U	2.2 U	2 U	2 U
2,4-Dinitrophenol	--	2.1 U	2 U	2.2 U	2 U	2 U
2,4-Dinitrotoluene	--	0.23 U	0.21 U	0.23 U	0.21 U	0.22 U
2,6-Dinitrotoluene	--	0.23 U	0.21 U	0.23 U	0.21 U	0.22 U
Di-n-octyl phthalate	10,000	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
Hexachlorobenzene	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
Hexachlorobutadiene	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
Hexachlorocyclopentadiene	2,200	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
Hexachloroethane	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
Isophorone	4,600	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
2-Methylnaphthalene	--	27	0.41 U	2.5	1.1	0.42 U
2-Methylphenol	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
4-Methylphenol	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
2-Nitroaniline	--	2.1 U	2 U	2.2 U	2 U	2 U
3-Nitroaniline	--	2.1 U	2 U	2.2 U	2 U	2 U
4-Nitroaniline	--	2.1 U	2 U	2.2 U	2 U	2 U
Nitrobenzene	1,000	0.23 U	0.21 U	0.23 U	0.21 U	0.22 U
2-Nitrophenol	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
4-Nitrophenol	--	2.1 U	2 U	2.2 U	2 U	2 U
N-Nitrosodi-n-propylamine	--	0.23 U	0.21 U	0.23 U	0.21 U	0.22 U
N-Nitrosodiphenylamine	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
2, 2'-Oxybis(1-Chloropropane)	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
Pentachlorophenol	--	2.1 U	2 U	2.2 U	2 U	2 U
Phenol	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
1,2,4-Trichlorobenzene	3,200	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
2,4,5-Trichlorophenol	--	0.88 U	0.82 U	0.89 U	0.82 U	0.84 U
2,4,6-Trichlorophenol	--	0.44 U	0.41 U	0.44 U	0.41 U	0.42 U
Subtotal:		62.1	30.8	36.8	31.5	31.3

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) TCL - Target Compound List.
(4) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB47-001 12 - 14	SB47-002 16 -18	SB48-001 8 -10	SB48-002 18 - 20	SB49-001 8 - 10
PAHs (mg/kg)						
Acenaphthene	--	22	0.074	5.9	0.41	0.32
Acenaphthylene	--	2.7	0.031 U	0.99	0.031 U	0.19
Anthracene	--	11	0.031 U	9.5	0.16	0.44
Benzo(a)anthracene	--	9	0.032	8.6	0.11	1
Benzo(b)fluoranthene	--	4.5	0.031 U	5.5	0.063	0.78
Benzo(k)fluoranthene	--	5.1	0.031 U	6.2	0.082	0.74
Benzo(g,h,i)perylene	--	3.9	0.031 U	5.5	0.034	0.68
Benzo(a)pyrene	--	4.6	0.031 U	9.8	0.088	1
Chrysene	--	8	0.048	8.1	0.14	1
Dibenzo(a,h)anthracene	--	0.91	0.031 U	1.2	0.031 U	0.11
Fluoranthene	--	20	0.072	20	0.22	1.9
Fluorene	--	13	0.04	3.5	0.26	0.24
Indeno(1,2,3-cd)pyrene	--	2.5	0.031 U	4.2	0.031 U	0.55
Naphthalene	--	33	0.13	5.3	7.8	0.2
Phenanthrene	--	43	0.12	21	0.52	1.3
Pyrene	--	26	0.088	22	0.21	2.1
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Subtotal of PCBs:	50*	NA	NA	NA	NA	NA
Subtotal:		209.2	0.9	137.3	10.2	12.6
Total Organic Content:	2,000**	272	32	174	42	44

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) NA - Not analyzed.
(4) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(5) ** 2,000 mg/kg is the natural organic carbon fraction (foc) default value for subsurface soil.
(6) PAHs - Polynuclear Aromatic Hydrocarbons.
(7) PCBs - Polychlorinated Biphenyls.
(8) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB49B-001 14 - 16	SB50-001 10 - 12	SB50-002 14 - 16	SB50-003 20 - 22	SB51-001 10 -12
TCL Volatiles (mg/kg)						
Acetone	100,000	0.031 U	0.082	1.9 U	0.037 U	0.03 U
Benzene	870	0.0063 U	0.13	2.9	0.0073 U	3.7
Bromodichloromethane	3,000	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
Bromoform	1,900	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
Bromomethane	3,200	0.013 U	0.026 U	0.75 U	0.015 U	0.012 U
2-Butanone	--	0.013 U	0.026 U	0.75 U	0.015 U	0.012 U
Carbon Disulfide	720	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
Carbon Tetrachloride	1,100	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
Chlorobenzene	680	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
Chloroethane	--	0.013 U	0.026 U	0.75 U	0.015 U	0.012 U
Chloroform	2,900	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
Chloromethane	--	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
Dibromochloromethane	1,300	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
1,1-Dichloroethane	1,700	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
1,2-Dichloroethane	1,800	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
1,1-Dichloroethene	1,500	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
cis-1,2-Dichloroethene	--	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
trans-1,2-Dichloroethene	--	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
1,2-Dichloropropane	1,100	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
cis-1,3-Dichloropropene	1,400	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
trans-1,3-Dichloropropene	1,400	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
Ethylbenzene	400	0.0063 U	0.6	30	0.56	5.8
2-Hexanone	--	0.013 U	0.026 U	0.75 U	0.015 U	0.012 U
4-Methyl-2-Pentanone	--	0.013 U	0.026 U	0.75 U	0.015 U	0.012 U
Methylene	2,400	0.013 U	0.026 U	0.75 U	0.015 U	0.012 U
Methyl tert-butyl ether	8,800	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
Styrene	1,500	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
1,1,2,2-Tetrachloroethane	--	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
Tetrachloroethene	240	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
Toluene	650	0.0063 U	0.016	0.38 U	0.018	0.0094
1,1,1-Trichloroethane	1,200	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
1,1,2-Trichloroethane	1,800	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
Trichloroethene	1,300	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
Vinyl Chloride	1,200	0.0063 U	0.013 U	0.38 U	0.0073 U	0.006 U
m,p-Xylene	420	NA	NA	NA	NA	NA
o-Xylene	410	NA	NA	NA	NA	NA
Xylenes, Total	320	0.013 U	2.3	21	2.1	3.9
Subtotal:		0.3	3.6	69.8	3.0	13.7

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) NA - Not analyzed.
(4) TCL - Target Compound List.
(5) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB49B-001 14 - 16	SB50-001 10 - 12	SB50-002 14 - 16	SB50-003 20 - 22	SB51-001 10 -12
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
Bis(2-chloroethyl)ether	3,300	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
Bis(2-ethylhexyl)phthalate	31,000	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
4-Bromophenyl phenyl ether	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
Butyl benzyl phthalate	930	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
Carbazole	--	0.41 U	0.47 U	0.46 U	0.45 U	4.8
4-Chloro-3-methylphenol	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
4-Chloroaniline	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
2-Chloronaphthalene	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
2-Chlorophenol	53,000	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
4-Chlorophenyl phenyl ether	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
Dibenzofuran	--	0.41 U	0.47 U	1.2	0.45 U	3.4
1,2-Dichlorobenzene	560	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
1,3-Dichlorobenzene	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
1,4-Dichlorobenzene	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
3,3´-Dichlorobenzidine	--	0.82 U	0.93 U	0.91 U	0.89 U	0.87 U
2,4-Dichlorophenol	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
Diethyl phthalate	2,000	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
Dimethyl phthalate	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
Di-n-butyl phthalate	2,300	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
2,4-Dimethylphenol	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
4,6-Dinitro-2-methylphenol	--	2 U	2.3 U	2.2 U	2.2 U	2.1 U
2,4-Dinitrophenol	--	2 U	2.3 U	2.2 U	2.2 U	2.1 U
2,4-Dinitrotoluene	--	0.21 U	0.24 U	0.23 U	0.23 U	0.22 U
2,6-Dinitrotoluene	--	0.21 U	0.24 U	0.23 U	0.23 U	0.22 U
Di-n-octyl phthalate	10,000	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
Hexachlorobenzene	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
Hexachlorobutadiene	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
Hexachlorocyclopentadiene	2,200	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
Hexachloroethane	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
Isophorone	4,600	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
2-Methylnaphthalene	--	0.41 U	0.95	7.5	0.45 U	52
2-Methylphenol	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
4-Methylphenol	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
2-Nitroaniline	--	2 U	2.3 U	2.2 U	2.2 U	2.1 U
3-Nitroaniline	--	2 U	2.3 U	2.2 U	2.2 U	2.1 U
4-Nitroaniline	--	2 U	2.3 U	2.2 U	2.2 U	2.1 U
Nitrobenzene	1,000	0.21 U	0.24 U	0.23 U	0.23 U	0.22 U
2-Nitrophenol	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
4-Nitrophenol	--	2 U	2.3 U	2.2 U	2.2 U	2.1 U
N-Nitrosodi-n-propylamine	--	0.21 U	0.24 U	0.23 U	0.23 U	0.22 U
N-Nitrosodiphenylamine	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
2, 2'-Oxybis(1-Chloropropane)	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
Pentachlorophenol	--	2 U	2.3 U	2.2 U	2.2 U	2.1 U
Phenol	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
1,2,4-Trichlorobenzene	3,200	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
2,4,5-Trichlorophenol	--	0.82 U	0.93 U	0.91 U	0.89 U	0.87 U
2,4,6-Trichlorophenol	--	0.41 U	0.47 U	0.46 U	0.45 U	0.44 U
Subtotal:		30.8	35.9	42.0	33.9	91.6

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) TCL - Target Compound List.
(4) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB49B-001 14 - 16	SB50-001 10 - 12	SB50-002 14 - 16	SB50-003 20 - 22	SB51-001 10 -12
PAHs (mg/kg)						
Acenaphthene	--	0.031 U	1.1	3	0.086	28
Acenaphthylene	--	0.031 U	0.57	0.44	0.034 U	4.1
Anthracene	--	0.031 U	1.4	2.6	0.18	20
Benzo(a)anthracene	--	0.035	2.2	3.9	0.42	17
Benzo(b)fluoranthene	--	0.031 U	1.5	2.4	0.27	8.2
Benzo(k)fluoranthene	--	0.032	1.5	3.8	0.38	7.4
Benzo(g,h,i)perylene	--	0.031 U	0.83	0.74	0.077	8
Benzo(a)pyrene	--	0.041	2.3	4.4	0.46	16
Chrysene	--	0.053	2.1	3.1	0.42	17
Dibenzo(a,h)anthracene	--	0.031 U	0.22	0.24	0.037	1.4
Fluoranthene	--	0.058	2.9	7.2	0.66	36
Fluorene	--	0.031 U	0.6	2.2	0.098	21
Indeno(1,2,3-cd)pyrene	--	0.031 U	0.75	0.89	0.098	6.2
Naphthalene	--	0.041	0.32	44	0.52	67
Phenanthrene	--	0.079	2.3	8.7	0.46	78
Pyrene	--	0.078	4.2	6.4	0.55	50
PCBs (mg/kg)						
Aroclor 1016	--	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA
Subtotal of PCBs:	50*	NA	NA	NA	NA	NA
Subtotal:		0.7	24.8	94.0	4.8	385.3
Total Organic Content:	2,000**	32	64	206	42	491

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) NA - Not analyzed.
(4) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(5) ** 2,000 mg/kg is the natural organic carbon fraction (foc) default value for subsurface soil.
(6) PAHs - Polynuclear Aromatic Hydrocarbons.
(7) PCBs - Polychlorinated Biphenyls.
(8) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20
TCL Volatiles (mg/kg)							
Acetone	100,000	0.027 U	1.4 U	0.027 U	0.036 U	0.1	0.031 U
Benzene	870	0.0055 U	2.6	0.0089	0.0086	0.21	0.0062 U
Bromodichloromethane	3,000	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
Bromoform	1,900	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
Bromomethane	3,200	0.011 U	0.55 U	0.011 U	0.015 U	0.019 U	0.012 U
2-Butanone	--	0.011 U	0.55 U	0.011 U	0.015 U	0.023	0.012 U
Carbon Disulfide	720	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
Carbon Tetrachloride	1,100	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
Chlorobenzene	680	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
Chloroethane	--	0.011 U	0.55 U	0.011 U	0.015 U	0.019 U	0.012 U
Chloroform	2,900	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
Chloromethane	--	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
Dibromochloromethane	1,300	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
1,1-Dichloroethane	1,700	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
1,2-Dichloroethane	1,800	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
1,1-Dichloroethene	1,500	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
cis-1,2-Dichloroethene	--	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
trans-1,2-Dichloroethene	--	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
1,2-Dichloropropane	1,100	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
cis-1,3-Dichloropropene	1,400	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
trans-1,3-Dichloropropene	1,400	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
Ethylbenzene	400	0.0055 U	11	0.043	0.0073 U	1.2	0.0062 U
2-Hexanone	--	0.011 U	0.55 U	0.011 U	0.015 U	0.019 U	0.012 U
4-Methyl-2-Pentanone	--	0.011 U	0.55 U	0.011 U	0.015 U	0.019 U	0.012 U
Methylene	2,400	0.011 U	0.55 U	0.011 U	0.018	0.035	0.026
Methyl tert-butyl ether	8,800	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
Styrene	1,500	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
1,1,2,2-Tetrachloroethane	--	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
Tetrachloroethene	240	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
Toluene	650	0.0055 U	0.7	0.0097	0.0073 U	0.013	0.0062 U
1,1,1-Trichloroethane	1,200	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
1,1,2-Trichloroethane	1,800	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
Trichloroethene	1,300	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
Vinyl Chloride	1,200	0.0055 U	0.28 U	0.0054 U	0.0073 U	0.0095 U	0.0062 U
m,p-Xylene	420	NA	NA	NA	NA	NA	NA
o-Xylene	410	NA	NA	NA	NA	NA	NA
Xylenes, Total	320	0.024	9.8	0.055	0.015 U	1.7	0.012 U
Subtotal:		0.3	35.5	0.3	0.3	3.6	0.3

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) NA - Not analyzed.
(4) TCL - Target Compound List.
(5) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20
TCL Semivolatiles (mg/kg)							
Bis(2-chloroethoxy)methane	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Bis(2-chloroethyl)ether	3,300	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Bis(2-ethylhexyl)phthalate	31,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Bromophenyl phenyl ether	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Butyl benzyl phthalate	930	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Carbazole	--	0.41 U	0.4 U	0.39 U	0.41 U	5.1	0.4 U
4-Chloro-3-methylphenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Chloroaniline	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Chloronaphthalene	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Chlorophenol	53,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Chlorophenyl phenyl ether	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Dibenzofuran	--	0.82	0.91	0.39 U	0.41 U	4.9	0.4 U
1,2-Dichlorobenzene	560	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
1,3-Dichlorobenzene	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
1,4-Dichlorobenzene	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
3,3´-Dichlorobenzidine	--	0.82 U	0.8 U	0.77 U	0.82 U	0.85 U	0.8 U
2,4-Dichlorophenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Diethyl phthalate	2,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Dimethyl phthalate	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Di-n-butyl phthalate	2,300	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2,4-Dimethylphenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4,6-Dinitro-2-methylphenol	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
2,4-Dinitrophenol	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
2,4-Dinitrotoluene	--	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
2,6-Dinitrotoluene	--	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
Di-n-octyl phthalate	10,000	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachlorobenzene	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachlorobutadiene	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachlorocyclopentadiene	2,200	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Hexachloroethane	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Isophorone	4,600	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Methylnaphthalene	--	4.5	19	1.8	0.41 U	37	0.4 U
2-Methylphenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Methylphenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
3-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
4-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
Nitrobenzene	1,000	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
2-Nitrophenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
4-Nitrophenol	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
N-Nitrosodi-n-propylamine	--	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.21 U
N-Nitrosodiphenylamine	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2, 2'-Oxybis(1-Chloropropane)	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Pentachlorophenol	--	2 U	1.9 U	1.9 U	2 U	2.1 U	1.9 U
Phenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
1,2,4-Trichlorobenzene	3,200	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
2,4,5-Trichlorophenol	--	0.82 U	0.8 U	0.77 U	0.82 U	0.85 U	0.8 U
2,4,6-Trichlorophenol	--	0.41 U	0.4 U	0.39 U	0.41 U	0.43 U	0.4 U
Subtotal:		35.3	48.9	30.7	30.8	78.0	29.7

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) TCL - Target Compound List.
(4) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB51-002 18 - 20	SB52-001 6 - 8	SB52-002 12 - 14	SB53-001 8 - 10	SB53-002 14 - 16	SB53-003 18 - 20
PAHs (mg/kg)							
Acenaphthene	--	2.4	3.7	0.19	2	16	0.11
Acenaphthylene	--	0.47	1	0.066	1.6	2.4	0.046
Anthracene	--	2.2	2.2	0.12	2.6	16	0.12
Benzo(a)anthracene	--	2.3	1.8	0.091	5.2	14	0.12
Benzo(b)fluoranthene	--	1.2	0.71	0.038	1.4	6.4	0.054
Benzo(k)fluoranthene	--	1.1	0.31	0.035	1.8	6.5	0.076
Benzo(g,h,i)perylene	--	0.57	0.18	0.029 U	1	1.6	0.042
Benzo(a)pyrene	--	1.7	1.3	0.07	4.8	11	0.099
Chrysene	--	2	1.7	0.096	6.8	15	0.14
Dibenzo(a,h)anthracene	--	0.11	0.1	0.029 U	0.5	1.2	0.03 U
Fluoranthene	--	3.7	2.7	0.15	7.8	24	0.22
Fluorene	--	2.5	3.6	0.2	4	19	0.13
Indeno(1,2,3-cd)pyrene	--	0.59	0.35	0.029 U	0.92	1.8	0.031
Naphthalene	--	6.1	22	2.3	1.5	41	0.24
Phenanthrene	--	7.6	11	0.65	14	57	0.48
Pyrene	--	4.2	4.5	0.22	12	27	0.27
PCBs (mg/kg)							
Aroclor 1016	--	NA	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA	NA
Subtotal of PCBs:	50*	NA	NA	NA	NA	NA	NA
Subtotal:		38.7	57.2	4.3	67.9	259.9	2.2
Total Organic Content:	2,000**	74	142	35	99	342	32

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) NA - Not analyzed.
(4) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(5) ** 2,000 mg/kg is the natural organic carbon fraction (foc) default value for subsurface soil.
(6) PAHs - Polynuclear Aromatic Hydrocarbons.
(7) PCBs - Polychlorinated Biphenyls.
(8) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB54-001 8 - 10	SB54-002 14 - 16	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20	SB57-001 10 - 12
TCL Volatiles (mg/kg)							
Acetone	100,000	3.2 U	0.027 U	0.026	0.032 U	0.028 U	0.047 U
Benzene	870	5.7	0.0054 U	0.064	0.0064 U	0.0056 U	0.0093 U
Bromodichloromethane	3,000	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
Bromoform	1,900	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
Bromomethane	3,200	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U	0.019 U
2-Butanone	--	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U	0.019 U
Carbon Disulfide	720	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
Carbon Tetrachloride	1,100	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
Chlorobenzene	680	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
Chloroethane	--	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U	0.019 U
Chloroform	2,900	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
Chloromethane	--	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
Dibromochloromethane	1,300	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
1,1-Dichloroethane	1,700	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
1,2-Dichloroethane	1,800	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
1,1-Dichloroethene	1,500	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
cis-1,2-Dichloroethene	--	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
trans-1,2-Dichloroethene	--	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
1,2-Dichloropropane	1,100	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
cis-1,3-Dichloropropene	1,400	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
trans-1,3-Dichloropropene	1,400	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
Ethylbenzene	400	25	0.0054 U	0.11	0.0064 U	0.0056 U	0.0093 U
2-Hexanone	--	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U	0.019 U
4-Methyl-2-Pentanone	--	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U	0.019 U
Methylene	2,400	1.3 U	0.011 U	0.01 U	0.013 U	0.011 U	0.019 U
Methyl tert-butyl ether	8,800	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
Styrene	1,500	0.64 U	0.0054 U	0.016	0.0064 U	0.0056 U	0.0093 U
1,1,2,2-Tetrachloroethane	--	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
Tetrachloroethene	240	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
Toluene	650	0.84	0.0054 U	0.066	0.0064 U	0.0056 U	0.0093 U
1,1,1-Trichloroethane	1,200	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
1,1,2-Trichloroethane	1,800	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
Trichloroethene	1,300	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
Vinyl Chloride	1,200	0.64 U	0.0054 U	0.005 U	0.0064 U	0.0056 U	0.0093 U
m,p-Xylene	420	NA	NA	NA	NA	NA	NA
o-Xylene	410	NA	NA	NA	NA	NA	NA
Xylenes, Total	320	8.7	0.011 U	0.18	0.013 U	0.011 U	0.019 U
Subtotal:		66.6	0.2	0.6	0.3	0.3	0.4

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) NA - Not analyzed.
(4) TCL - Target Compound List.
(5) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB54-001 8 - 10	SB54-002 14 - 16	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20	SB57-001 10 - 12
TCL Semivolatiles (mg/kg)							
Bis(2-chloroethoxy)methane	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
Bis(2-chloroethyl)ether	3,300	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
Bis(2-ethylhexyl)phthalate	31,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
4-Bromophenyl phenyl ether	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
Butyl benzyl phthalate	930	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
Carbazole	--	0.51	0.4 U	0.39 U	0.4 U	0.4 U	4.9
4-Chloro-3-methylphenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
4-Chloroaniline	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
2-Chloronaphthalene	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
2-Chlorophenol	53,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
4-Chlorophenyl phenyl ether	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
Dibenzofuran	--	1.9	0.4 U	0.39 U	0.4 U	0.4 U	3.4
1,2-Dichlorobenzene	560	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
1,3-Dichlorobenzene	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
1,4-Dichlorobenzene	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
3,3´-Dichlorobenzidine	--	0.84 U	0.79 U	0.79 U	0.81 U	0.81 U	0.97 U
2,4-Dichlorophenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
Diethyl phthalate	2,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
Dimethyl phthalate	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
Di-n-butyl phthalate	2,300	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
2,4-Dimethylphenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
4,6-Dinitro-2-methylphenol	--	2 U	1.9 U	1.9 U	2 U	2 U	2.4 U
2,4-Dinitrophenol	--	2 U	1.9 U	1.9 U	2 U	2 U	2.4 U
2,4-Dinitrotoluene	--	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U	0.25 U
2,6-Dinitrotoluene	--	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U	0.25 U
Di-n-octyl phthalate	10,000	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
Hexachlorobenzene	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
Hexachlorobutadiene	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
Hexachlorocyclopentadiene	2,200	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
Hexachloroethane	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
Isophorone	4,600	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
2-Methylnaphthalene	--	45	0.4 U	0.8	0.4 U	0.4 U	3
2-Methylphenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
4-Methylphenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	2.7
2-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2 U	2.4 U
3-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2 U	2.4 U
4-Nitroaniline	--	2 U	1.9 U	1.9 U	2 U	2 U	2.4 U
Nitrobenzene	1,000	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U	0.25 U
2-Nitrophenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
4-Nitrophenol	--	2 U	1.9 U	1.9 U	2 U	2 U	2.4 U
N-Nitrosodi-n-propylamine	--	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U	0.25 U
N-Nitrosodiphenylamine	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
2, 2'-Oxybis(1-Chloropropane)	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
Pentachlorophenol	--	2 U	1.9 U	1.9 U	2 U	2 U	2.4 U
Phenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
1,2,4-Trichlorobenzene	3,200	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
2,4,5-Trichlorophenol	--	0.84 U	0.79 U	0.79 U	0.81 U	0.81 U	0.97 U
2,4,6-Trichlorophenol	--	0.42 U	0.4 U	0.39 U	0.4 U	0.4 U	0.48 U
Subtotal:		77.4	29.7	29.7	30.5	30.5	48.6

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) TCL - Target Compound List.
(4) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB54-001 8 - 10	SB54-002 14 - 16	SB55-001 6 - 8	SB55-002 12 - 14	SB56-001 18 - 20	SB57-001 10 - 12
PAHs (mg/kg)							
Acenaphthene	--	12	0.046	0.078	0.03 U	0.031 U	3.9
Acenaphthylene	--	4	0.03 U	0.089	0.03 U	0.031 U	0.85
Anthracene	--	7.4	0.046	0.099	0.03 U	0.031 U	11
Benzo(a)anthracene	--	5.4	0.037	0.098	0.03 U	0.031 U	18
Benzo(b)fluoranthene	--	2.6	0.03 U	0.054	0.03 U	0.031 U	11
Benzo(k)fluoranthene	--	2.1	0.03 U	0.05	0.03 U	0.031 U	12
Benzo(g,h,i)perylene	--	1.8	0.03 U	0.033	0.03 U	0.031 U	6.7
Benzo(a)pyrene	--	4.8	0.034	0.092	0.03 U	0.031 U	15
Chrysene	--	5.3	0.045	0.1	0.03 U	0.031 U	16
Dibenzo(a,h)anthracene	--	0.6	0.03 U	0.029 U	0.03 U	0.031 U	1.8
Fluoranthene	--	9.6	0.062	0.16	0.03 U	0.031 U	31
Fluorene	--	9.3	0.049	0.15	0.03 U	0.031 U	6.4
Indeno(1,2,3-cd)pyrene	--	1.6	0.03 U	0.029 U	0.03 U	0.031 U	6.9
Naphthalene	--	110	0.26	0.95	0.03 U	0.031 U	4.1
Phenanthrene	--	27	0.15	0.58	0.067	0.037	26
Pyrene	--	14	0.095	0.31	0.03 U	0.031 U	29
PCBs (mg/kg)							
Aroclor 1016	--	NA	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA	NA
Subtotal of PCBs:	50*	NA	NA	NA	NA	NA	NA
Subtotal:		217.5	1.0	2.9	0.5	0.5	199.7
Total Organic Content:	2,000**	362	31	33	31	31	249

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) NA - Not analyzed.
(4) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(5) ** 2,000 mg/kg is the natural organic carbon fraction (foc) default value for subsurface soil.
(6) PAHs - Polynuclear Aromatic Hydrocarbons.
(7) PCBs - Polychlorinated Biphenyls.
(8) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB57-002 16 - 18	SB58-001 12 - 14	SB58-002 16 - 18	SB58-003 8 - 10	SB59-001 6 - 8	SB59-002 16 - 18
TCL Volatiles (mg/kg)							
Acetone	100,000	0.028 U	0.047 U	0.031 U	0.047	0.028 U	0.033 U
Benzene	870	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.031	0.0067 U
Bromodichloromethane	3,000	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
Bromoform	1,900	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
Bromomethane	3,200	0.011 U	0.019 U	0.012 U	0.019 U	0.011 U	0.013 U
2-Butanone	--	0.011 U	0.019 U	0.012 U	0.019 U	0.011 U	0.013 U
Carbon Disulfide	720	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
Carbon Tetrachloride	1,100	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
Chlorobenzene	680	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
Chloroethane	--	0.011 U	0.019 U	0.012 U	0.019 U	0.011 U	0.013 U
Chloroform	2,900	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
Chloromethane	--	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
Dibromochloromethane	1,300	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
1,1-Dichloroethane	1,700	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
1,2-Dichloroethane	1,800	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
1,1-Dichloroethene	1,500	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
cis-1,2-Dichloroethene	--	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
trans-1,2-Dichloroethene	--	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
1,2-Dichloropropane	1,100	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
cis-1,3-Dichloropropene	1,400	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
trans-1,3-Dichloropropene	1,400	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
Ethylbenzene	400	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.071	0.0067 U
2-Hexanone	--	0.011 U	0.019 U	0.012 U	0.019 U	0.011 U	0.013 U
4-Methyl-2-Pentanone	--	0.011 U	0.019 U	0.012 U	0.019 U	0.011 U	0.013 U
Methylene	2,400	0.011 U	0.019 U	0.012 U	0.019 U	0.017	0.016
Methyl tert-butyl ether	8,800	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
Styrene	1,500	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
1,1,2,2-Tetrachloroethane	--	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
Tetrachloroethene	240	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
Toluene	650	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
1,1,1-Trichloroethane	1,200	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
1,1,2-Trichloroethane	1,800	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
Trichloroethene	1,300	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
Vinyl Chloride	1,200	0.0057 U	0.0094 U	0.0061 U	0.0093 U	0.0055 U	0.0067 U
m,p-Xylene	420	NA	NA	NA	NA	NA	NA
o-Xylene	410	NA	NA	NA	NA	NA	NA
Xylenes, Total	320	0.011 U	0.019 U	0.012 U	0.019 U	0.044	0.013 U
Subtotal:		0.3	0.4	0.3	0.4	0.4	0.3

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) NA - Not analyzed.
(4) TCL - Target Compound List.
(5) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB57-002 16 - 18	SB58-001 12 - 14	SB58-002 16 - 18	SB58-003 8 - 10	SB59-001 6 - 8	SB59-002 16 - 18
TCL Semivolatiles (mg/kg)							
Bis(2-chloroethoxy)methane	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Bis(2-chloroethyl)ether	3,300	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Bis(2-ethylhexyl)phthalate	31,000	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
4-Bromophenyl phenyl ether	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Butyl benzyl phthalate	930	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Carbazole	--	0.39 U	6.8	0.41 U	0.51 U	0.39 U	0.38 U
4-Chloro-3-methylphenol	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
4-Chloroaniline	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
2-Chloronaphthalene	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
2-Chlorophenol	53,000	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
4-Chlorophenyl phenyl ether	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Dibenzofuran	--	0.39 U	4.6	0.41 U	0.51 U	0.39 U	0.38 U
1,2-Dichlorobenzene	560	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
1,3-Dichlorobenzene	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
1,4-Dichlorobenzene	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
3,3´-Dichlorobenzidine	--	0.79 U	1.1 U	0.82 U	1 U	0.78 U	0.75 U
2,4-Dichlorophenol	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Diethyl phthalate	2,000	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Dimethyl phthalate	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Di-n-butyl phthalate	2,300	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
2,4-Dimethylphenol	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
4,6-Dinitro-2-methylphenol	--	1.9 U	2.6 U	2 U	2.5 U	1.9 U	1.8 U
2,4-Dinitrophenol	--	1.9 U	2.6 U	2 U	2.5 U	1.9 U	1.8 U
2,4-Dinitrotoluene	--	0.2 U	0.28 U	0.21 U	0.26 U	0.2 U	0.19 U
2,6-Dinitrotoluene	--	0.2 U	0.28 U	0.21 U	0.26 U	0.2 U	0.19 U
Di-n-octyl phthalate	10,000	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Hexachlorobenzene	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Hexachlorobutadiene	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Hexachlorocyclopentadiene	2,200	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Hexachloroethane	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Isophorone	4,600	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
2-Methylnaphthalene	--	0.39 U	3.8	0.41 U	1.3	0.39 U	0.38 U
2-Methylphenol	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
4-Methylphenol	--	0.39 U	2.2	0.41 U	0.51 U	0.39 U	0.38 U
2-Nitroaniline	--	1.9 U	2.6 U	2 U	2.5 U	1.9 U	1.8 U
3-Nitroaniline	--	1.9 U	2.6 U	2 U	2.5 U	1.9 U	1.8 U
4-Nitroaniline	--	1.9 U	2.6 U	2 U	2.5 U	1.9 U	1.8 U
Nitrobenzene	1,000	0.2 U	0.28 U	0.21 U	0.26 U	0.2 U	0.19 U
2-Nitrophenol	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
4-Nitrophenol	--	1.9 U	2.6 U	2 U	2.5 U	1.9 U	1.8 U
N-Nitrosodi-n-propylamine	--	0.2 U	0.28 U	0.21 U	0.26 U	0.2 U	0.19 U
N-Nitrosodiphenylamine	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
2, 2'-Oxybis(1-Chloropropane)	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Pentachlorophenol	--	1.9 U	2.6 U	2 U	2.5 U	1.9 U	1.8 U
Phenol	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
1,2,4-Trichlorobenzene	3,200	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
2,4,5-Trichlorophenol	--	0.79 U	1.1 U	0.82 U	1 U	0.78 U	0.75 U
2,4,6-Trichlorophenol	--	0.39 U	0.54 U	0.41 U	0.51 U	0.39 U	0.38 U
Subtotal:		29.3	55.7	30.8	39.2	29.3	28.2

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) TCL - Target Compound List.
(4) mg/kg - milligram per kilogram.

Table 10 (Continued)
Potential Source Material Calculations for Subsurface Soil Attenuation Capacity and Soil Saturation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	C_{sat} (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration					
		SB57-002 16 - 18	SB58-001 12 - 14	SB58-002 16 - 18	SB58-003 8 - 10	SB59-001 6 - 8	SB59-002 16 - 18
PAHs (mg/kg)							
Acenaphthene	--	0.03 U	4.3	0.072	1.3	0.029 U	0.028 U
Acenaphthylene	--	0.03 U	0.45	0.031 U	0.63	0.029 U	0.028 U
Anthracene	--	0.03 U	11	0.079	1.1	0.029 U	0.028 U
Benzo(a)anthracene	--	0.03 U	14	0.065	2.2	0.029 U	0.028 U
Benzo(b)fluoranthene	--	0.03 U	8.5	0.038	2.3	0.029 U	0.028 U
Benzo(k)fluoranthene	--	0.03 U	9.8	0.038	1.7	0.029 U	0.028 U
Benzo(g,h,i)perylene	--	0.03 U	3.2	0.031 U	1.2	0.029 U	0.028 U
Benzo(a)pyrene	--	0.03 U	12	0.059	2.4	0.029 U	0.028 U
Chrysene	--	0.037	12	0.061	2	0.029	0.028 U
Dibenzo(a,h)anthracene	--	0.03 U	1.6	0.031 U	0.45	0.029 U	0.028 U
Fluoranthene	--	0.056	27	0.14	4.2	0.029	0.028 U
Fluorene	--	0.03 U	6.2	0.088	1.4	0.029 U	0.028 U
Indeno(1,2,3-cd)pyrene	--	0.03 U	3.8	0.031 U	1.2	0.029 U	0.028 U
Naphthalene	--	0.054	4	0.39	0.87	0.087	0.028 U
Phenanthrene	--	0.11	27	0.24	1.3	0.089	0.075
Pyrene	--	0.057	23	0.11	4.7	0.05	0.028 U
PCBs (mg/kg)							
Aroclor 1016	--	NA	NA	NA	NA	NA	NA
Aroclor 1221	--	NA	NA	NA	NA	NA	NA
Aroclor 1232	--	NA	NA	NA	NA	NA	NA
Aroclor 1242	--	NA	NA	NA	NA	NA	NA
Aroclor 1248	--	NA	NA	NA	NA	NA	NA
Aroclor 1254	--	NA	NA	NA	NA	NA	NA
Aroclor 1260	--	NA	NA	NA	NA	NA	NA
Subtotal of PCBs:	50*	NA	NA	NA	NA	NA	NA
Subtotal:		0.6	167.9	1.5	29.0	0.6	0.5
Total Organic Content:	2,000**	30	224	33	69	30	29

NOTES:
(1) -- Soil saturation limits not available.
(2) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(3) NA - Not analyzed.
(4) * 50 mg/kg PCBs is defined as source material in accordance with TACO.
(5) ** 2,000 mg/kg is the natural organic carbon fraction (foc) default value for subsurface soil.
(6) PAHs - Polynuclear Aromatic Hydrocarbons.
(7) PCBs - Polychlorinated Biphenyls.
(8) mg/kg - milligram per kilogram.

Table 11
Reactivity of Potential Source Material
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Regulatory Level (mg/kg)	Sample Location and Depth (feet below ground surface)/Concentration		
		SP06-003 8-10	SB23-003 14-16	SP43-002 3.5-4.5
Reactive Cyanide and Reactive Sulfide (mg/kg)				
Reactive Cyanide	250	0.87 U	1 U	1.1 U
Reactive Sulfide	500	22 U	160	23 U

NOTES:
(1) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.
(2) mg/kg - milligrams per kilogram.

Table 12
Soil pH Results
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Sample Location	Depth (feet below ground surface)	pH
SB01-002	8-10	8.49
SP03-002	4-5	7.52
SP05-002	9-10	7.6
SP08-001	0-0.5	7.80
SB09-001	3-5	10.2
SP10-001	0-2	8.67
SP13-002	6-7	8.43
SP16-002	9-10	8.82
SB31-001	2-3	8.21
SB32-002	3-5	8.59
SP34-001	0-0.5	9.81
SP35-001	1-2	10.15
SP37-001	1-2	7.63
SB38-001	5-7	8.67
SP39-002	5-6	8.79
SP44-002	6-7	7.78
MW01-001	18-20	7.53
MW05-001	18-20	7.28

NOTE:
(1) pH - Method 9045C.

Table 13
Potential Source Material Toxicity Characteristics
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Analyte	Regulatory Level (mg/l)	Sample Location and Depth (feet below ground surface)/Concentration				
		SB04-001 5-7	SP06-003 8-10	SB23-003 14-16	SP35-001 1-2	SP43-002 3.5-4.5
TCLP RCRA Metals (mg/l)						
Arsenic	5	NA	0.02 U	0.02 U	NA	0.02 U
Barium	100	NA	0.87	0.77	NA	1.8
Cadmium	1	NA	0.01 U	0.01 U	NA	0.023
Chromium	5	0.062	0.02 U	0.02 U	NA	0.02 U
Lead	5	NA	0.2	0.3	0.37	0.21
Mercury	0.2	NA	0.00025 U	0.00025 U	NA	0.00025 U
Selenium	1	NA	0.02 U	0.02 U	NA	0.02 U
Silver	5	NA	0.02 U	0.02 U	NA	0.02 U

NOTES:
(1) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(2) NA - Not analyzed.
(3) mg/l - milligrams per liter.
(4) TCLP - Toxcicity Characteristic Leaching Procedure.
(5) Regulatory level is the concentration corresponding to the characteristic hazardous waste as defined in 35 IAC, 721.

Table 14
Further Evaluation of Soil Migration to Groundwater at the North Branch of the Chicago River
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Sample Location and Depth (feet below ground surface)/ Compound	Tier 1 Class II Groundwater Ingestion Screening Level (mg/L)[1]	Surface Water Quality Standard (mg/L)[2]	Concentration in Soil (mg/kg)	C River[3] (mg/L)
SP03-001 (2-3)				
Carbazole	--	--	2.90	4.50E-03
SP06-002 (3-4)				
Benzene	0.025	0.860	0.78	1.20E-169
Naphthalene	0.22	--	27	6.77E-294
SP06-003 (8-10)				
Lead	0.1	0.1	0.2*	6.01E-03
SB09-001 (3-5)				
Benzene	0.025	0.860	0.19	5.37E-113
Carbazole	--	--	3.7	6.09E-02
SP10-002 (6-7)				
Benzene	0.025	0.860	3.6	2.85E-178
SP10-003 (13-14)				
Benzene	0.025	0.860	0.92	7.29E-179
Naphthalene	0.22	--	27	7.52E-310
SB19-001 (1-2)				
Carbazole	--	--	3.2	5.45E-03
SB24-001 (1-2)				
Carbazole	--	--	4.1	6.77E-03
SP25-001 (1-2)				
Benzene	0.025	0.860	1.5	2.46E-253
SP25-002 (3-5)				
Benzene	0.025	0.860	0.22	3.60E-254
Carbazole	--	--	5.7	7.44E-03
Benzo(a)anthracene	0.00065	--	14	3.16E-193
Naphthalene	0.22	--	28	0.00E+00
SB32-001 (2-3)				
Benzene	0.025	0.860	5.2	4.41E-259
SB32-002 (3-5)				
Benzene	0.025	0.860	0.77	6.53E-260
SP43-002 (3.5-4.5)				
Lead	0.1	0.1	0.21*	1.74E-03
SB47-001 (12-14)				
Benzo(a)anthracene	0.00065	--	9	3.07E-75
Naphthalene	0.22	--	33	1.76E-168

Notes:

(1) Based upon groundwater remediation objective for groundwater component of the groundwater ingestion route

(2) Based upon surfae water qulity standards in 35 IAC, Part 302.

(3) C River is the calculated contaminant concentration at the river from point source concentration.

(4) * - Based on TCLP result. Units are mg/L.

(5) mg/kg - milligram per kilogram.

(6) mg/L - milligram per liter.

(7) -- - Surface water quality standard is not available.

(8) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

Table 14 (continued)
Further Evaluation of Soil Migration to Groundwater at the North Branch of the Chicago River
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Sample Location and Depth (feet below ground surface)/ Compound	Tier 1 Class II Groundwater Ingestion Screening Level (mg/L)[1]	Surface Water Quality Standard (mg/L)[2]	Concentration in Soil (mg/kg)	C River[3] (mg/L)
SB48-001 (8-10)				
Benzo(a)anthracene	0.00065	--	8.6	1.36E-43
SB50-002 (14-16)				
Benzene	0.025	0.860	2.9	1.56E-54
Ethylbenzene	1.0	0.014	30	8.49E-101
Naphthalene	0.22	--	44	3.90E-96
SB51-001 (10-12)				
Benzene	0.025	0.860	3.7	1.91E-54
Carbazole	--	--	4.8	3.26E-01
Benzo(a)anthracene	0.00065	--	17	2.59E-43
Naphthalene	0.22	--	67	5.52E-96
SB52-001 (6-8)				
Benzene	0.025	0.860	2.6	7.22E-149
Naphthalene	0.22	--	22	5.73E-259
SB53-002 (14-16)				
Benzene	0.025	0.860	0.21	1.08E-55
Carbazole	--	--	5.1	3.47E-01
Benzo(a)anthracene	0.00065	--	14	2.14E-43
Naphthalene	0.22	--	41	4.01E-96
SB54-001 (8-10)				
Benzene	0.025	0.860	5.7	1.58E-148
Ethylbenzene	1.0	0.014	25	3.16E-272
Naphthalene	0.22	--	110	2.41E-258
SB58-001 (12-14)				
Carbazole	--	--	6.8	3.24E-01
Benzo(a)anthracene	0.00065	--	14	4.01E-53

Notes:
(1) Based upon groundwater remediation objective for groundwater component of the groundwater ingestion route
(2) Based upon surfae water qulity standards in 35 IAC, Part 302.
(3) C River is the calculated contaminant concentration at the river from point source concentration.
(4) * - Based on TCLP result. Units are mg/L.
(5) mg/kg - milligram per kilogram.
(6) mg/L - milligram per liter.
(7) -- - Surface water quality standard is not available.
(8) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

Table 15
Further Evaluation of Groundwater Ingestion at the North Branch of the Chicago River
Tier 1 Class II Groundwater Ingestion Screening Level Evaluation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Sample Location/Compound	Tier 1 Class II Groundwater Ingestion Screening Level (mg/L)*	Concentration in Groundwater (mg/L)	C River** (mg/L)
MW01-001			
Benzene	0.025	0.21	2.63E-73
MW05-001			
Benzo(a)anthracene	0.00065	0.00076	6.06E-225
Copper	0.65	1.2	6.83E-03
Lead	0.1	0.96	5.47E-03
Thallium	0.02	0.024	1.37E-04

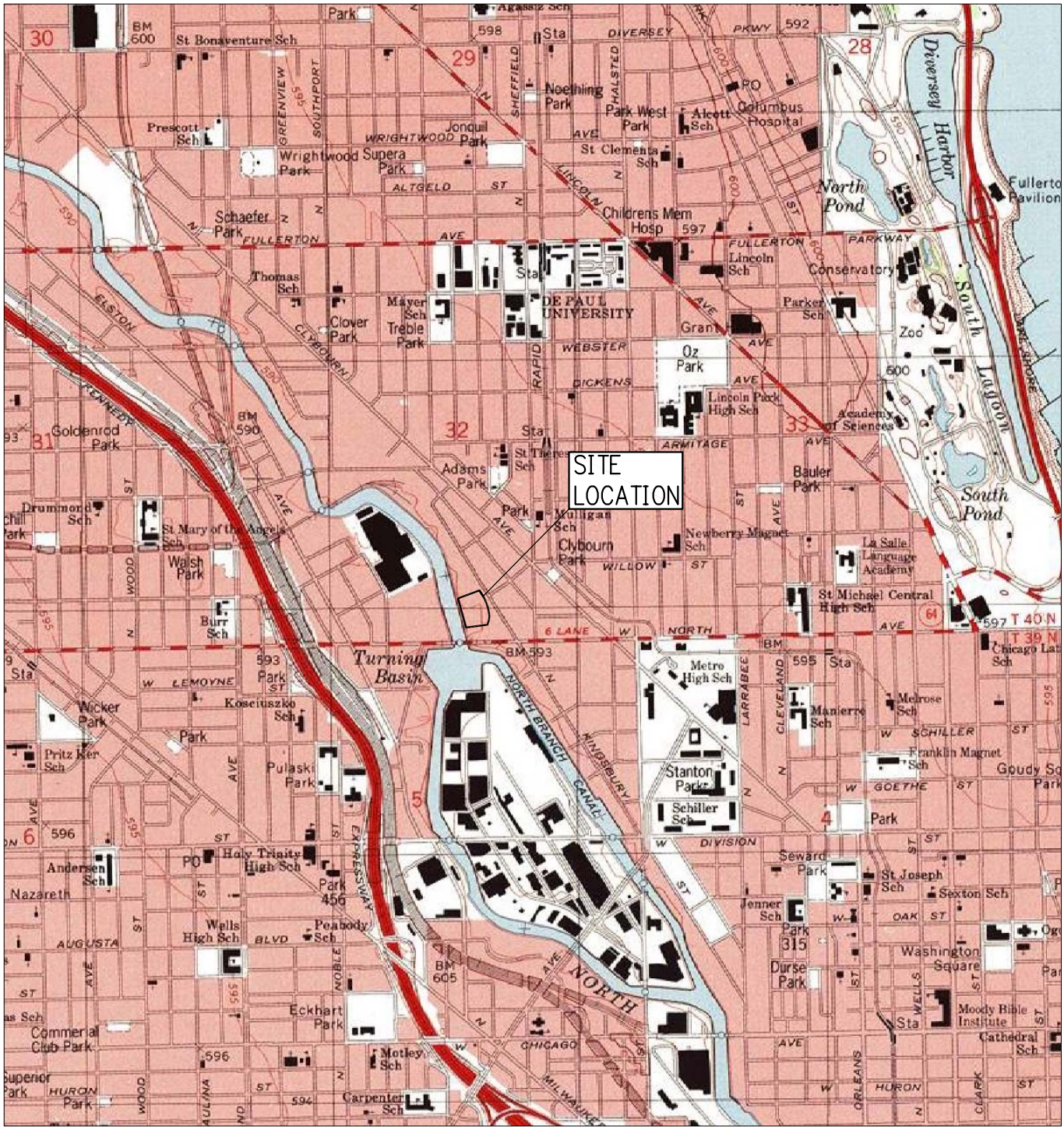
Notes:
(1) mg/L - milligrams per liter.
(2) * - Based upon groundwater remediation objective for groundwater component of the groundwater ingestion route
(3) ** - C River is the calculated contaminant concentration at the river from point source concentration.

Table 16
Further Evaluation of Groundwater Ingestion at the North Branch of the Chicago River
Surface Water Quality Standard Evaluation
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Sample Location/Compound	Surface Water Quality Standard (mg/L)*	Concentration in Groundwater (mg/L)	C River ** (mg/L)
MW01-001			
Benzene	0.860	0.21	2.63E-73
MW05-001			
Benzo(a)anthracene	--	0.00076	6.06E-225
Copper	1.0	1.2	6.83E-03
Lead	0.1	0.96	5.47E-03
Thallium	--	0.024	1.37E-04

Notes:
(1) mg/L - milligrams per liter.
(2) * - Based upon surface water quality standard in 35 IAC, 302.
(3) ** - C River is the calculated contaminant concentration at the river from point source concentration.
(4) -- - Surface water quality standard not available.

FIGURES
THE FORMER WILLOW STREET STATION MANUFACTURED GAS PLANT SITE, 1640 NORTH KINGSBURY PORTION



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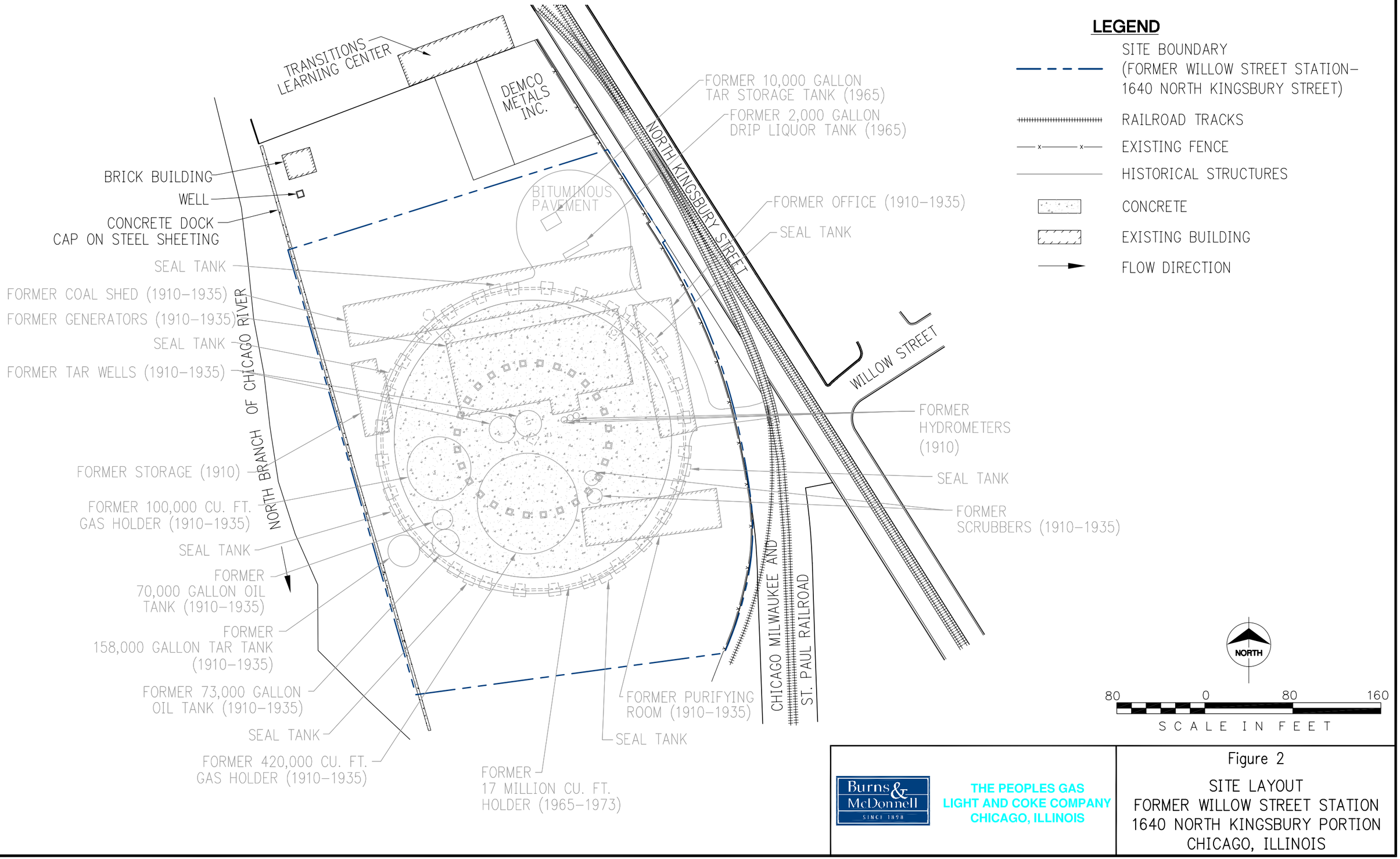
SINCE 1898

THE PEOPLES GAS LIGHT AND COKE COMPANY
CHICAGO, ILLINOIS

Figure 1

SITE LOCATION MAP
FORMER WILLOW STREET STATION
1640 NORTH KINGSBURY PORTION
CHICAGO, ILLINOIS

I:PEOPLES GAS/WILLOW GENERAL IRON-32088/CAD/BID/SSI ROR RAP/SITE LOCATION MAP



I:\PEOPLES GAS\WILLOW GENERAL IRON-32088\CAD\BID\SSI ROR RAP\SITE LAYOUT

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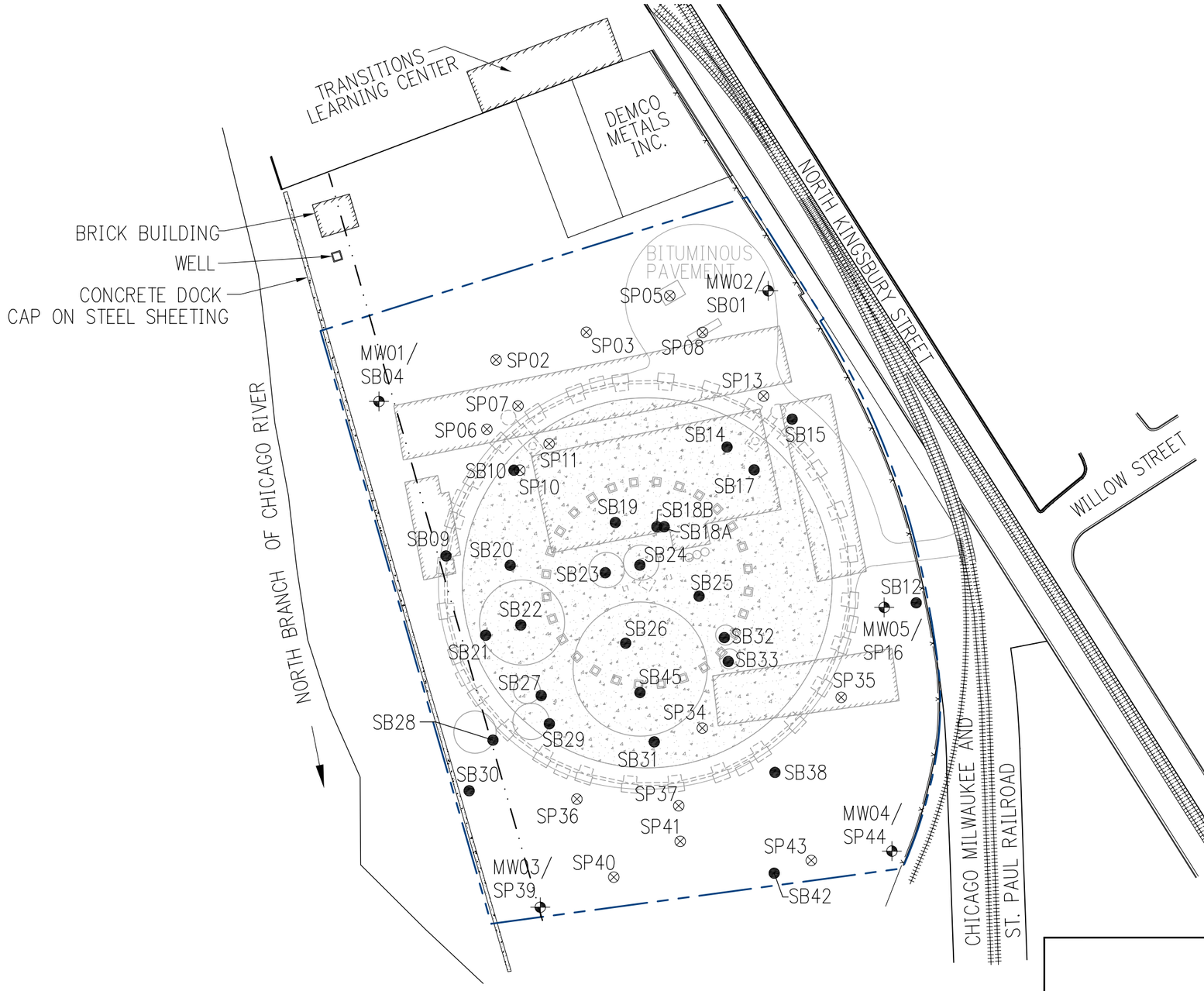
THE PEOPLES GAS LIGHT AND COKE COMPANY CHICAGO, ILLINOIS

Figure 2

SITE LAYOUT
FORMER WILLOW STREET STATION
1640 NORTH KINGSBURY PORTION
CHICAGO, ILLINOIS



LEGEND

- SITE BOUNDARY (FORMER WILLOW STREET STATION– 1640 NORTH KINGSBURY STREET)
- RAILROAD TRACKS
- EXISTING FENCE
- HISTORICAL STRUCTURES
- CONCRETE
- EXISTING BUILDING
- 30' SET BACK
- SOIL PROBE LOCATION
- SOIL BORING LOCATION
- TEMPORARY MONITORING WELL
- FLOW DIRECTION

NOTE:

SB12, SB30, SP36, SP41, AND SB42 WERE NOT ADVANCED DUE TO EXISTING OBSTRUCTIONS AT THE TIME OF INVESTIGATION.

NORTH

80 0 80 160

SCALE IN FEET

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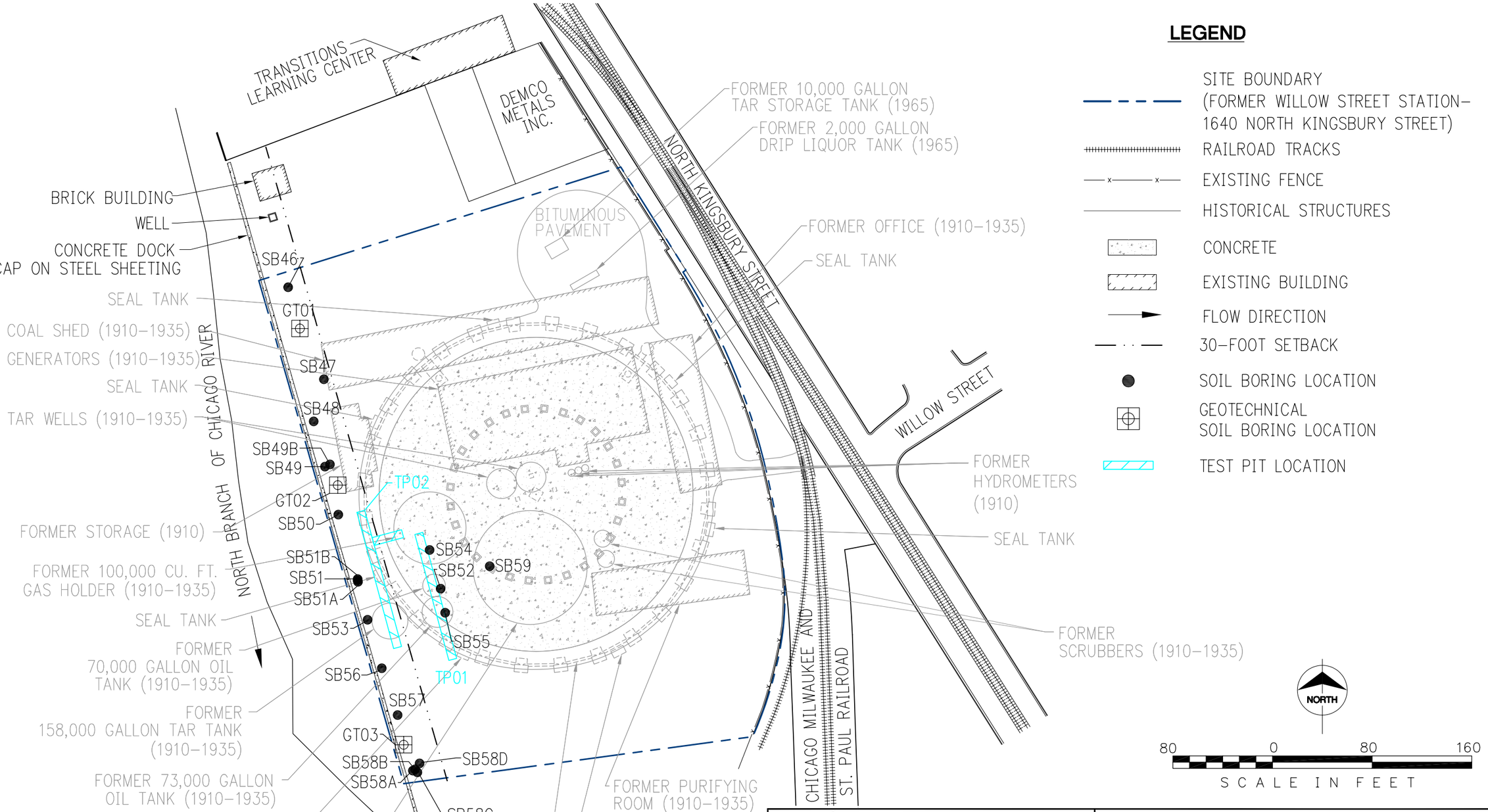
THE PEOPLES GAS LIGHT AND COKE COMPANY
CHICAGO, ILLINOIS

Figure 3

SOIL BORING/PROBE AND MONITORING WELL LOCATION MAP
SITE INVESTIGATION 2002
FORMER WILLOW STREET STATION
1640 NORTH KINGSBURY PORTION
CHICAGO, ILLINOIS

I:\PEOPLES GAS\WILLOW GENERAL IRON-32088\CAD\BID\SSI ROR RAP\SAMPLE LOCATION



I:\PEOPLES GAS\WILLOW GENERAL IRON-32088\CAD\BID\SSI ROR RAP\TP-SB LOC

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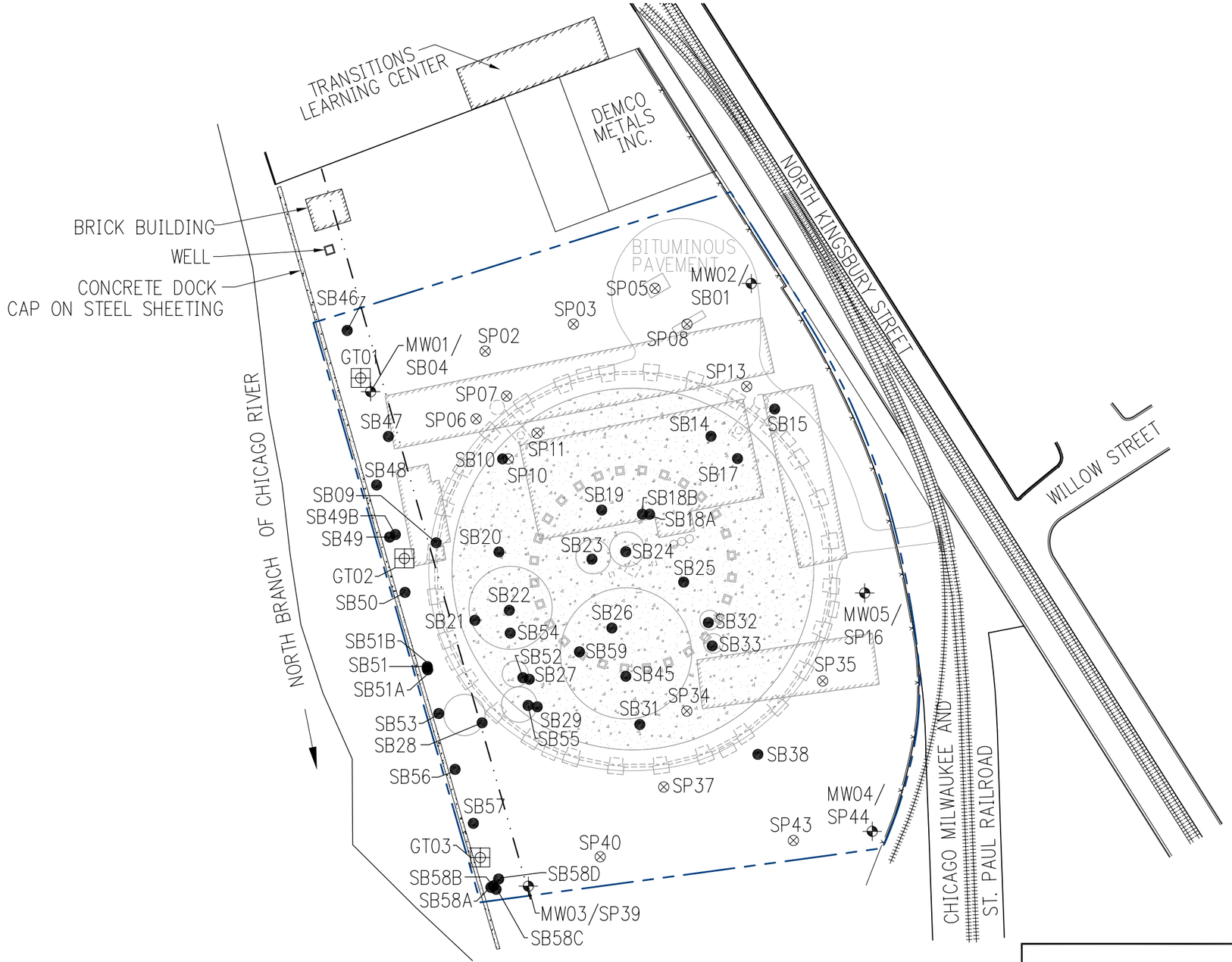
THE PEOPLES GAS LIGHT AND COKE COMPANY
CHICAGO, ILLINOIS

Figure 4
TEST PIT AND SOIL BORING LOCATION MAP
SUPPLEMENTAL SITE INVESTIGATION 2004
FORMER WILLOW STREET STATION
1640 NORTH KINGSBURY PORTION
CHICAGO, ILLINOIS



LEGEND

- SITE BOUNDARY (FORMER WILLOW STREET STATION– 1640 NORTH KINGSBURY STREET)
- RAILROAD TRACKS
- EXISTING FENCE
- HISTORICAL STRUCTURES
- CONCRETE
- EXISTING BUILDING
- 30' SET BACK
- SOIL PROBE LOCATION
- SOIL BORING LOCATION
- TEMPORARY MONITORING WELL LOCATION
- GEOTECHNICAL SOIL BORING LOCATION
- FLOW DIRECTION

NOTE:

SB12, SB30, SP36, SP41, AND SB42 WERE NOT ADVANCED DUE TO EXISTING OBSTRUCTIONS AT THE TIME OF INVESTIGATION.

NORTH

80 0 80 160

SCALE IN FEET

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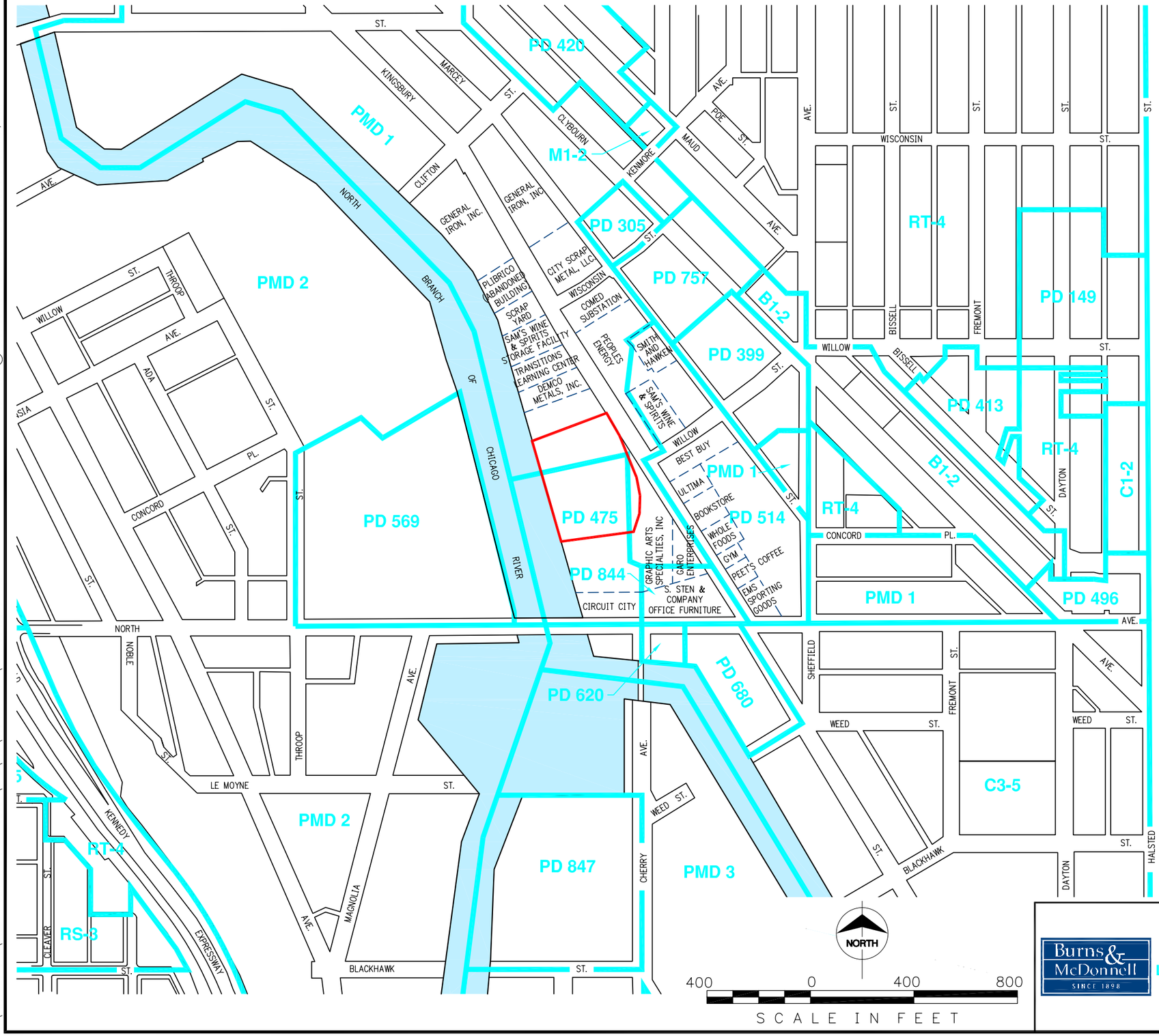
Figure 5

SOIL BORING/PROBE AND MONITORING WELL LOCATION MAP FORMER WILLOW STREET STATION 1640 NORTH KINGSBURY PORTION CHICAGO, ILLINOIS

I:\PEOPLES GAS\WILLOW GENERAL IRON-32088\CAD\BID\SSI ROR RAP\ALL-SAMPLE LOCATION



LEGEND

M1-1, R3	ZONING CODES
	ZONING BORDERS
	SITE BOUNDARY (FORMER WILLOW SREET STATION– 1640 NORTH KINGSBURY STREET)
- - - - - - -	APPROXIMATE LOCATION OF ADJACENT PROPERTIES

ZONING DISTRICTS

B1-2	NEIGHBORHOOD SHOPPING DISTRICT
B4-2	COMMUNITY SHOPPING DISTRICT
C1-2	NEIGHBORHOOD COMMERCIAL DISTRICT
C3-5	COMMERCIAL, MANUFACTURING AND EMPLOYMENT DISTRICT
M1-2	LIMITED MANUFACTURING/BUSINESS PARK DISTRICT
PD 149	PLANNED DEVELOPMENT
PD 305	PLANNED DEVELOPMENT
PD 399	PLANNED DEVELOPMENT
PD 413	PLANNED DEVELOPMENT
PD 420	PLANNED DEVELOPMENT
PD 496	PLANNED DEVELOPMENT
PD 569	PLANNED DEVELOPMENT
PD 620	PLANNED DEVELOPMENT
PD 680	PLANNED DEVELOPMENT
PD 475	PLANNED DEVELOPMENT
PD 514	PLANNED DEVELOPMENT
PD 757	PLANNED DEVELOPMENT
PD 844	PLANNED DEVELOPMENT
PD 847	PLANNED DEVELOPMENT
PMD 1	PLANNED MANUFACTURING DISTRICTS
PMD 2	PLANNED MANUFACTURING DISTRICTS
PMD 3	PLANNED MANUFACTURING DISTRICTS
RM-5	RESIDENTIAL MULTI-UNIT DISTRICTS
RS-3	RESIDENTIAL SINGLE-UNIT (DETACHED HOUSE) DISTRICTS
RT-4	RESIDENTIAL TWO-FLAT, TOWNHOUSE AND MULTI-UNIT DISTRICTS

SOURCE:
2004 CHICAGO ZONING ORDINANCE

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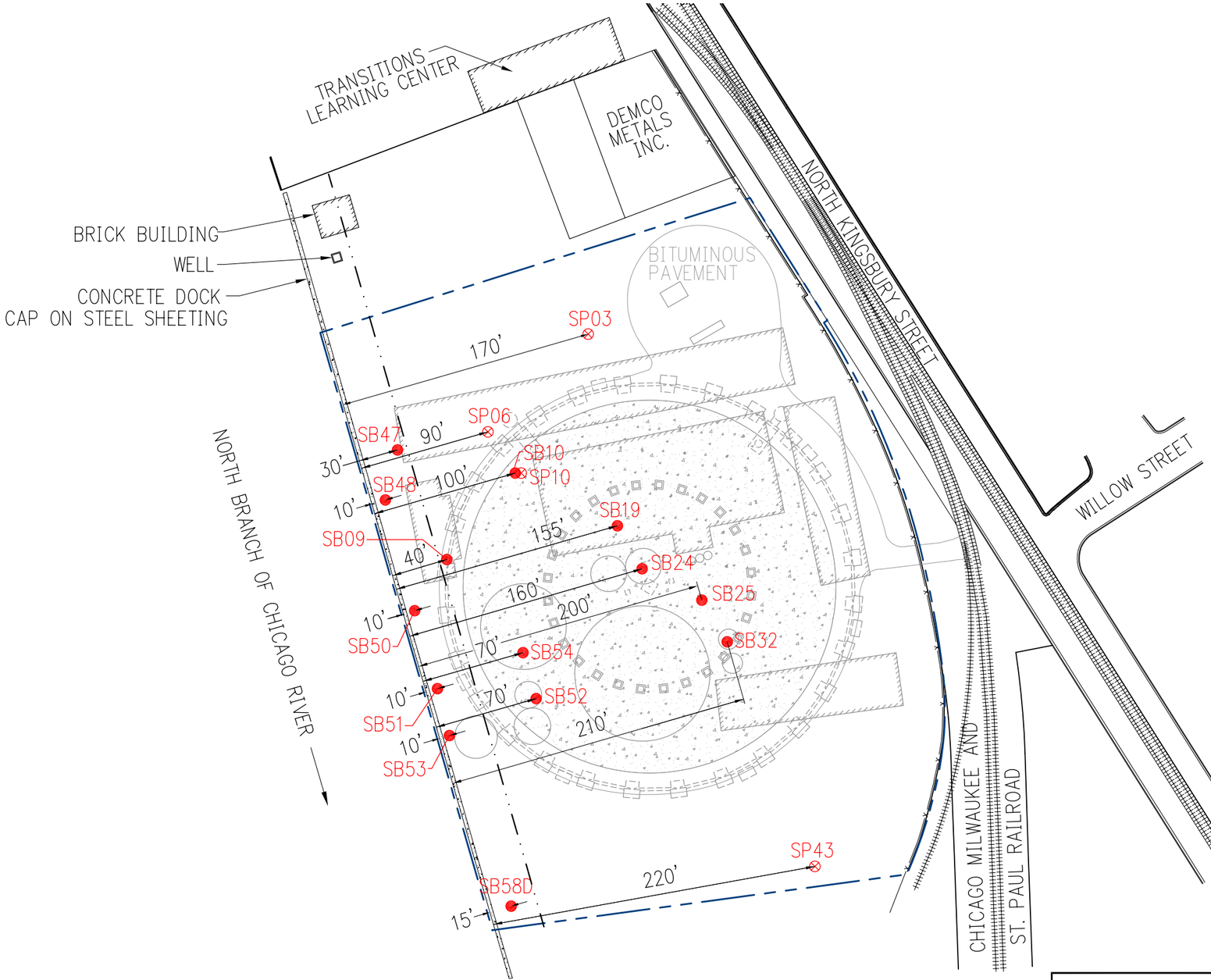
THE PEOPLES GAS LIGHT AND COKE COMPANY CHICAGO, ILLINOIS

Figure 6

SURROUNDING AREA MAP
FORMER WILLOW STREET STATION
1640 NORTH KINGSBURY PORTION
CHICAGO, ILLINOIS



LEGEND

- SITE BOUNDARY (FORMER WILLOW STREET STATION– 1640 NORTH KINGSBURY STREET)
- RAILROAD TRACKS
- EXISTING FENCE
- HISTORICAL STRUCTURES
- CONCRETE
- EXISTING BUILDING
- 30' SET BACK
- TIER 1 SOIL MIGRATION TO CLASS II GROUNDWATER EXCEEDENCES
- FLOW DIRECTION
- 170' — DISTANCE (X) FROM SOIL SAMPLE TO THE EDGE OF THE DOWNGRADIENT RIVER

NORTH

80 0 80 160

SCALE IN FEET

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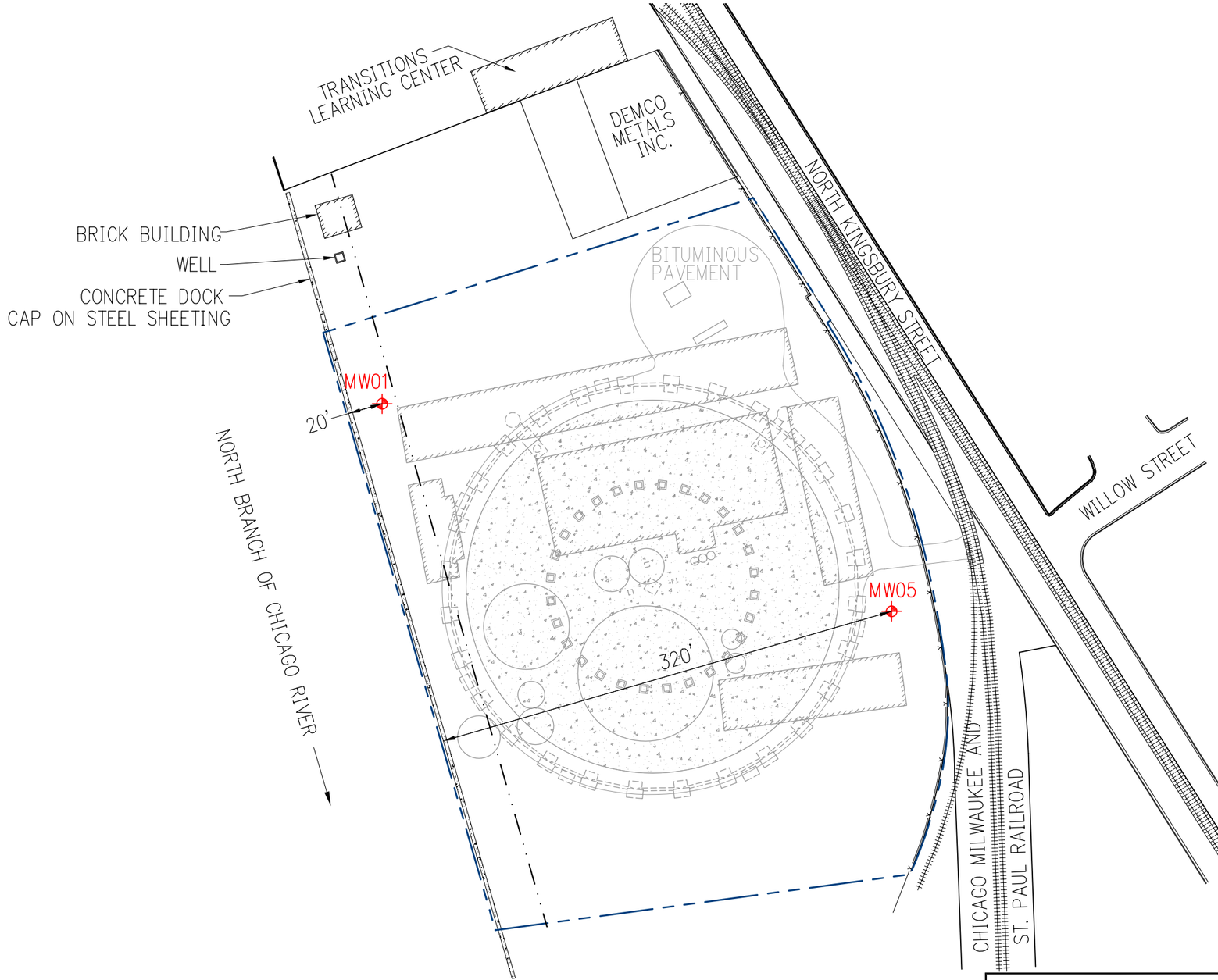
THE PEOPLES GAS LIGHT AND COKE COMPANY
CHICAGO, ILLINOIS

Figure 7

TIER 1 SOIL MIGRATION TO CLASS II GROUNDWATER EXCEEDENCE LOCATION MAP
FORMER WILLOW STREET STATION
1640 NORTH KINGSBURY PORTION
CHICAGO, ILLINOIS

I:\PEOPLES GAS\WILLOW GENERAL IRON-32088\CAD\BID\SSI ROR RAP\SOIL MIG TO GW



LEGEND

- SITE BOUNDARY (FORMER WILLOW STREET STATION– 1640 NORTH KINGSBURY STREET)
- RAILROAD TRACKS
- EXISTING FENCE
- HISTORICAL STRUCTURES
- CONCRETE
- EXISTING BUILDING
- 30' SET BACK
- TIER 1 CLASS II GROUNDWATER INGESTION EXCEEDENCES
- FLOW DIRECTION
- 170' — DISTANCE (X) FROM GROUNDWATER SAMPLE TO THE EDGE OF THE DOWNGRADIENT RIVER

NORTH

80 0 80 160

SCALE IN FEET

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THE PEOPLES GAS LIGHT AND COKE COMPANY
CHICAGO, ILLINOIS

Figure 8

TIER 1 CLASS II GROUNDWATER INGESTION EXCEEDENCE LOCATION MAP
FORMER WILLOW STREET STATION
1640 NORTH KINGSBURY PORTION
CHICAGO, ILLINOIS

I:\PEOPLES GAS\WILLOW GENERAL IRON-32088\CAD\BID\SSI ROR RAP\GW EXCEED

LEGEND

- SITE BOUNDARY (FORMER WILLOW STREET STATION– 1640 NORTH KINGSBURY STREET)
- RAILROAD TRACKS
- EXISTING FENCE
- HISTORICAL STRUCTURES
- CONCRETE
- EXISTING BUILDING
- SOIL PROBE LOCATION
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- FLOW DIRECTION
- AREA OF 3' EXCAVATION
- AREA OF 4' EXCAVATION
- AREA OF 4.5' EXCAVATION
- AREA OF 5' EXCAVATION
- AREA OF 7' EXCAVATION
- AREA OF 10' EXCAVATION
- AREA OF 12' EXCAVATION
- AREA OF 14' EXCAVATION
- AREA OF 16' EXCAVATION
- AREA OF 20' EXCAVATION
- AREA OF 24' EXCAVATION OR BOTTOM OF HOLDER
- AREA CONTAINING PCBs > 50 PPM EXCAVATED IN APRIL 2004
- SOURCE MATERIAL
- 30' SETBACK
- (3') IDENTIFIED DEPTH OF EXCAVATION

NOTE:

1. SB12, SB30, SP36, SP41, AND SB42 WERE NOT ADVANCED DUE TO EXISTING OBSTRUCTIONS AT THE TIME OF INVESTIGATION.
2. INTEGRITY OF THE ENTIRE SHEET PILE WALL NEEDS TO BE FUTHER EVALUATED.

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THE PEOPLES GAS LIGHT AND COKE COMPANY CHICAGO, ILLINOIS

Figure 9

PROPOSED EXCAVATION MAP
FORMER WILLOW STREET STATION
1640 NORTH KINGSBURY PORTION
CHICAGO, ILLINOIS

I:\PEOPLES GAS\WILLOW GENERAL IRON-32088\CAD\BID\SSI ROR RAP\P-EXCAVATION MAP

BRICK BUILDING
WELL
CONCRETE DOCK CAP ON STEEL SHEETING
PHASE 1A
PHASE 1B
PHASE 2
PHASE 3
BITUMINOUS PAVEMENT
NORTH KINGSBURY STREET
WILLOW STREET
OF CHICAGO RIVER
NORTH BRANCH
ENGINEERED BARRIER AREA A
CHICAGO MILWAUKEE AND ST. PAUL RAILROAD
NORTH
PCB AREA EXCAVATED IN APRIL 2004

CF01-A CF01-B CF01-C CF01-D CF01-E

CF01 CF02 CF03 CF04 CF05 CF06 CF07 CF08 CF09 CF10 CF11 CF12 CF13 CF14 CF15 CF16 CF17 CF18 CF19 CF20 CF21 CF22 CF23 CF24 CF25 CF26 CF27 CF28 CF29 CF30 CF31 CF32 CF33 CF34 CF35 CF36 CF37 CF38 CF39 CF40 CF41 CF42 CF43 CF44 CF45 CF46 CF47 CF48 CF49

3' 4' 4.5' 5' 7' 10' 12' 14' 16' 20' 24'

60 0 60 120
SCALE IN FEET

LEGEND

- SITE BOUNDARY (FORMER WILLOW STREET STATION–1640 NORTH KINGSBURY STREET)
- RAILROAD TRACKS
- EXISTING FENCE
- HISTORICAL STRUCTURES
- CONCRETE
- EXISTING BUILDING
- FLOW DIRECTION
- AREA OF 3' EXCAVATION
- AREA OF 4' EXCAVATION
- AREA OF 4.5' EXCAVATION
- AREA OF 5' EXCAVATION
- AREA OF 7' EXCAVATION
- AREA OF 10' EXCAVATION
- AREA OF 12' EXCAVATION
- AREA OF 14' EXCAVATION
- AREA OF 16' EXCAVATION
- AREA OF 20' EXCAVATION
- AREA OF 24' EXCAVATION OR BOTTOM OF HOLDER
- AREA CONTAINING PCBs > 50 PPM EXCAVATED IN APRIL 2004
- SOURCE MATERIAL
- 3' IDENTIFIED DEPTH OF EXCAVATION
- 30' SETBACK
- PROPOSED COMPOSITE CONFIRMATIONI SAMPLE LOCATION

NOTE:

1. CONFIRMATION SAMPLES WILL BE COLLECTED AT EVERY LOCATION WITH DEPTH CHANGES BELOW 3'

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THE PEOPLES GAS LIGHT AND COKE COMPANY
CHICAGO, ILLINOIS

Figure 10

PROPOSED CONFIRMATION SAMPLE LOCATION MAP
FORMER WILLOW STREET STATION
1640 NORTH KINGSBURY PORTION
CHICAGO, ILLINOIS

I:\PEOPLES GAS\WILLOW GENERAL IRON-32088\CAD\BID\SSI ROR RAP\P-CONFIRMATION--2

APPENDIX A
SUPPLEMENTAL SITE INVESTIGATION
PHOTO LOG
THE FORMER WILLOW STREET STATION MANUFACTURED GAS PLANT SITE, 1640 NORTH KINGSBURY PORTION

The Former Willow Street Station
Manufactured Gas Plant Site,
1640 North Kingsbury Portion
Date: November 29, 2004

Description:
View of site facing south, before investigation activities begin.

The Former Willow Street Station
Manufactured Gas Plant Site,
1640 North Kingsbury Portion
Date: November 29, 2004

Description:
View facing south at the north end of TP01 showing concrete wall, staining and brick rubble.

The Former Willow Street Station
Manufactured Gas Plant Site,
1640 North Kingsbury Portion
Date: November 30, 2004

Description:
View of TP01 showing brick wall and impacts.

The Former Willow Street Station
Manufactured Gas Plant Site,
1640 North Kingsbury Portion
Date: November 30, 2004

Description:
View of TP01 facing north showing brick wall and concrete slab encountered.

The Former Willow Street Station
Manufactured Gas Plant Site,
1640 North Kingsbury Portion
Date: December 1, 2004

Description:
View of split spoon from SB51 at 10 to 12 feet below ground surface.

The Former Willow Street Station
Manufactured Gas Plant Site,
1640 North Kingsbury Portion
Date: December 1, 2004

Description:
View facing south of TP02 showing abandoned pipe.

The Former Willow Street Station
Manufactured Gas Plant Site,
1640 North Kingsbury Portion
Date: December 1, 2004

Description:
View of TP02 showing uncovered sheet metal, abandoned pipe and impacts.

The Former Willow Street Station
Manufactured Gas Plant Site,
1640 North Kingsbury Portion
Date: December 1, 2004

Description:
View of TP02 facing north.

The Former Willow Street Station
Manufactured Gas Plant Site,
1640 North Kingsbury Portion
Date: December 1, 2004

Description:
View of concrete found at south end of TP02 with tar coating

The Former Willow Street Station
Manufactured Gas Plant Site,
1640 North Kingsbury Portion
Date: December 1, 2004

Description:
View of TP02 showing concrete wall on the east side of trench.

The Former Willow Street Station
Manufactured Gas Plant Site,
1640 North Kingsbury Portion
Date: December 1, 2004

Description:
View of TP02 show top of tar tank uncovered.

The Former Willow Street Station
Manufactured Gas Plant Site,
1640 North Kingsbury Portion
Date: December 1, 2004

Description:
View of site facing north after test trench activities were completed.

APPENDIX B
SUPPLEMENTAL SITE INVESTIGATION
SOIL BORING LOGS
THE FORMER WILLOW STREET STATION
MANUFACTURED GAS PLANT SITE,
1640 NORTH KINGSBURY PORTION

Drilling Log

Burns & McDonnell
SINCE 1898

Project Name: Former Willow Street Station		Project No.: 32088	Boring/Monitoring Well Number: GT01
Coordinates: N 5365.265 E 4916.147		Ground Elevation: 6.04	Page: 1 of 3
Total Depth (feet): 37	Hole Size (inches): 8 1/4	Driller (s): Jaime Favela	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 12-6-04	To: 12-6-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier / Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
5	1	Advanced augers to 26' bgs to push shelby tubes and conduct vane shear testing in native clay.									▽ Depth to water while drilling ▼ Depth to water after drilling
4	2										
3	3										
2	4										
1	5										
0	6										
-1	7										
-2	8										
-3	9										
-4	10										
-5	11										
-6	12										
-7	13										

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name	Former Willow Street Station
Project Number	32088
Boring/Monitoring Well Number	GT01
Page	2 of 3
Date	12-6-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
	15	Advanced augers to 26' bgs to push shelby tubes and conduct vane shear testing in native clay.									
-9											
-10	16										
-11	17										
-12	18										
-13	19										
-14	20										
-15	21										
-16	22										q_u = Unconfined Compressive Strength s_u = Shear Strength WC% = water content percent (moisture content) psf = pounds per square foot
-17	23										
-18	24										
-19	25										
-20	26	Pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, medium stiff, low plasticity, moist		3T	1	PUSH		2/2	0.55	0.0	q_u = 648 psf s_u = 324 psf WC% = 23.8
-21	27										
-22	28										

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name: Former Willow Street Station
Project Number: 32088

Boring/Monitoring Well Number: GT01
Page: 3 of 3
Date: 12-6-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
				SAMPLING							
	30	Pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, medium stiff, low plasticity, moist		VS	2						Peak Vane Shear s_u = 4140 psf Remold = 2068 psf
-24		medium to very stiff				8			2.0		
	31			SS	3	9 10	19	1.5/1.5		0.0	
-25									3.5		
	32										
-26				3T	4	P U S H		2/2	2.5	0.0	q_u = 3954 psf s_u = 1978 psf WC% = 15.5
-27	33										
-28	34										
-29	35			3T	5	P U S H		2/2	2.75	0.0	q_u = 4777 psf s_u = 2390 psf WC% = 15.5
-30	36										
	37	End of boring at 37 feet bgs									
	38										
	39										
	40										
	41										
	42										
	43										

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log

Burns & McDonnell
SINCE 1898

Project Name: Former Willow Street Station		Project No.: 32088	Boring/Monitoring Well Number: GT02
Coordinates: N 5239.504 E 4946.579		Ground Elevation: 6.28	Page: 1 of 3
Total Depth (feet): 36	Hole Size (inches): 8 1/4	Driller (s): Jaime Favela	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 12-7-04	To: 12-7-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier	Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
6	1	Advanced augers to 25' bgs to push shelby tubes and conduct vane shear testing in native clay.									▽ Depth to water while drilling ▼ Depth to water after drilling
5	2										
4	3										
3	4										
2	5										
1	6										
0	7										
-1	8										
-2	9										
-3	10										
-4	11										
-5	12										
-6	13										
-7											

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name Former Willow Street Station
Project Number 32088

Boring/Monitoring Well Number GT02
Page 2 of 3
Date 12-7-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-8	15	Advanced augers to 25' bgs to push shelby tubes and conduct vane shear testing in native clay.									
-9	16										
-10	17										
-11	18										
-12	19										
-13	20										
-14	21										
-15	22										
-16	23										q_u = Unconfined Compressive Strength s_u = Shear Strength WC% = water content percent (moisture content) psf = pounds per square foot
-17	24										
-18	25										
-19	26	Pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, medium stiff, low plasticity, moist		3T	1	PUSH		2/2	0.75	0.0	q_u = 1663 psf s_u = 832 psf WC% = 23.7
-20	27			VS	2						Peak Vane Shear s_u = 1114 psf Remold = 570 psf
-21	28										
-22											

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station
Project Number: 32088
Boring/Monitoring Well Number: GT02
Page: 3 of 3
Date: 12-7-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-23	30	Pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, medium stiff, low plasticity, moist									
-24		medium stiff to stiff		3T	3	PUSH		2/2	1.25	0.0	q_u = 1693 psf s_u = 847 psf WC% = 22.8
-25	31										
-26	32			VS	4						Peak Vane Shear s_u = 4136 psf Remold = 2068 psf
-27	33										
-28	34			3T	5	PUSH		1.35/2	2.0	0.0	q_u = 2890 psf s_u = 1445 psf WC% = 19.2
-29	35										
	36	End of boring at 36 feet bgs									
	37										
	38										
	39										
	40										
	41										
	42										
	43										

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log

Burns & McDonnell
SINCE 1898

Project Name: Former Willow Street Station		Project No.: 32088	Boring/Monitoring Well Number: GT03
Coordinates: N 5031.083 E 4999.47		Ground Elevation: 5.83	Page: 1 of 3
Total Depth (feet): 40	Hole Size (inches): 8 1/4	Driller (s): Jaime Favela	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 12-6-04	To: 12-6-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier / Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
5	1	Blind drill to 27' bgs to push shelby tubes and conduct vane shear testing in native clay.									Depth to water while drilling ▽ / Depth to water after drilling ▼
4	2										
3	3										
2	4										
1	5										
0	6										
-1	7										
-2	8										
-3	9										
-4	10										
-5	11										
-6	12										
-7	13										
-8											

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name: Former Willow Street Station
Project Number: 32088

Boring/Monitoring Well Number: GT03
Page: 2 of 3
Date: 12-6-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	SAMPLING: Sample Interval	SAMPLING: Blow Counts per 0.5'	SAMPLING: N Value	SAMPLING: Sample Recovery/Length (feet)	SAMPLING: Penetrometer (TSF)	PID Reading (PPM)	Remarks
-9	15	Blind drill to 27' bgs to push shelby tubes and conduct vane shear testing in native clay.									
-10	16										
-11	17										
-12	18										
-13	19										
-14	20										
-15	21										
-16	22										q_u = Unconfined Compressive Strength s_u = Shear Strength WC% = water content percent (moisture content) psf = pounds per square foot
-17	23										
-18	24										
-19	25										
-20	26										
-21	27	Pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, medium stiff, low plasticity, moist		3T	1	PUSH		2/2	0.6	0.0	q_u = 1049 psf s_u = 525 psf WC% = 24.5
-22	28										
-23											

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station
Project Number: 32088

Boring/Monitoring Well Number: GT03
Page: 3 of 3
Date: 12-6-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-24	30	Pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, medium stiff, low plasticity, moist		VS	2						Peak Vane Shear s_u = 1295 psf Remold = 660 psf
-25	31	stiff									
-26	32			3T	3	PUSH		2/2	1.5	0.0	q_u = 2106 psf s_u = 1053 psf WC% = 15.8
-27	33			VS	4						Peak Vane Shear s_u = 3386 psf Remold = 1732 psf
-28	34										
-29	35										
-30	36			3T	5	PUSH		2/2	2.0	0.0	q_u = 3103 psf s_u = 1552 psf WC% = 18.6
-31	37										
-32	38										
-33	39			3T	6	PUSH		2/2	2.0	0.0	q_u = 4119 psf s_u = 2061 psf WC% = 18.5
-34	40	End of boring at 40 feet bgs									
	41										
	42										
	43										

Drilling Log

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station	Project No.: 32088	Boring/Monitoring Well Number: SB46	
Coordinates: N 5398.416 E 4906.727	Ground Elevation: 5.10	Page: 1 of 2	
Total Depth (feet): 18	Hole Size (inches): 8 1/4	Driller (s): Mark Natali	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 11-30-04	To: 11-30-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier	Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
5		FILL: dark yellowish Brown (10YR 4/2) silt, some to little coarse to fine sand, little scrap metal, trace brick, very dense, moist		SS	1	3 14 50/2"		1/2		0.0	▽ Depth to water while drilling ▼ Depth to water after drilling
4	1										
3	2			SS	2	8 44 10 6	54	1.5/2		0.0	
2	3										
1	4	FILL: olive Gray (5Y 4/1) to olive Black (5Y 2/1) silty clay, some medium to fine sand, little to trace brick, loose to very loose, wet		SS	3	2 3 4 3	7	1.5/2		0.0	Depth to water while drilling: 5' bgs
0	5										
-1	6	saturated		SS	4	1 1 2 2	3	1.1/2		0.0	
-2	7	1" lens of cinders									
-3	8			SS	5	2 6 4 1	10	1.1/2		0.0	sheen on water
-4	9	FILL: olive Black (5Y 2/1) silt, some brick, some cinders, loose to medium dense, saturated.									
-5	10			SS	6	1 6 4 4	10	1.2/2	1.0	0.0	Sampled 10-12 feet (001)
-6	11	FILL: olive Black (5Y 2/1) silty clay, little medium to fine sand, little brick, little cinders, stiff to very soft, low plasticity, moist to wet									
-7	12			SS	7	2 3 7 7	10	0.8/2	<0.25	0.0	
-8	13										

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name	Former Willow Street Station
Project Number	32088
Boring/Monitoring Well Number	SB46
Page	2 of 2
Date	11-30-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-9	15	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace medium to fine sand, trace lenses of black silt, medium stiff, low plasticity, moist		SS	8	2 1 2 3	3	1.2/2	1.0	0.0	
-10	16										Sampled 16-18 feet (002)
-11	17			SS	9	2 2 2 4	4	1.4/2	0.75	0.0	
-12	18	End of boring at 18 feet bgs									
	19										
	20										
	21										
	22										
	23										
	24										
	25										
	26										
	27										
	28										

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station	Project No.: 32088	Boring/Monitoring Well Number: SB47	
Coordinates: N 5324.551 E 4935.413	Ground Elevation: 6.77	Page: 1 of 4	
Total Depth (feet): 50	Hole Size (inches): 8 1/4	Driller (s): Mark Natali	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 12-1-04 To: 12-1-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier	Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
											▽ Depth to water while drilling ▼ Depth to water after drilling
6	1	FILL: olive Black (5Y 2/1) silt, some fine gravel, some brick, some coarse to fine sand, trace wood, extremely dense, dry to moist		SS	1	40 60/4"		0.8/2		0.0	
5	2										
4	3	FILL: dusky yellowish Brown (10YR 2/2) silty clay, little to trace coarse to fine sand, trace brick, hard to stiff, low plasticity, moist		SS	2	5 7 6 5	13	1.5/2	4.5+	0.0	
3	4										
2	5			SS	3	3 4 3 3	7	1.5/2	3.25	0.0	
1	6										
0	7	FILL: olive Black (5Y 2/1) silt, slight petroleum odor, some medium to fine sand, trace brick, loose, wet		SS	4	2 1 4 4	5	1.2/2	1.75	1.8	
-1	8										
-2	9	saturated		SS	5	2 3 4 10	7	0.7/2		0.0	
-3	10										
-4	11			SS	6	5 1 1 2	2	0.5/2		0.3	sheen on water in spoon
-5	12										
-6	13	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace black silt lenses, trace coarse to fine sand, medium stiff, low plasticity, moist		SS	7	1 1 2 2	3	1.1/2	<0.25	2.1	globules of petroleum in water Sampled 12-14 feet (001)
-7											

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station
Project Number: 32088

Boring/Monitoring Well Number: SB47
Page: 2 of 4
Date: 12-1-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-8	15	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace black silt lenses, trace coarse to fine sand, medium stiff, low plasticity, moist		SS	8	1 2 2 3	4	0.9/2	1.0	0.0	
-9	16										Sampled 16-18 feet (002)
-10	17			SS	9	1 2 2 4	4	1.2/2	0.75	0.0	
-11	18										
-12	19										
-13	20	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, medium stiff, low plasticity, moist									
-14	21										
-15	22			SS	10	1 2 2 2	4	1.2/2	1.0	0.0	
-16	23										
-17	24			SS	11	2 2 3 3	5	1.7/2	0.5	0.0	
-18	25										
-19	26			SS	12	2 2 3 2	5	1.7/2	0.5	0.0	
-20	27										
-21	28										
-22				SS	13	3	6	1.6/2	0.5	0.0	

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name: Former Willow Street Station
Project Number: 32088

Boring/Monitoring Well Number: SB47
Page: 3 of 4
Date: 12-1-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
				SAMPLING							
-23	30	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, medium stiff, low plasticity, moist		SS	13	4 2 4	6	1.6/2	0.5	0.0	
-24											
-25	31			SS	14	2 2 3 5	5	1.8/2	0.5	0.0	
-26	32										
-27	33	medium to very stiff									
-28	34			SS	15	2 4 6 8	10	1.3/2	2.25	0.0	
-29	35										
-30	36										
-31	37										
-32	38	very stiff to stiff		SS	16	3 6 6 10	12	1.5/2	1.25	0.0	
-33	39										
-34	40										
-35	41										
-36	42										
-37	43										

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name	Former Willow Street Station
Project Number	32088
Boring/Monitoring Well Number	SB47
Page	4 of 4
Date	12-1-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
		pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, very stiff, low plasticity, moist									
-38	45			SS	17	4 6 9 12	15	1.5/2	2.75	0.0	
-39	46										
-40	47										
-41	48										
-42	49			SS	18	3 6 9 12	15	1.6/2	2.5	0.0	
-43	50	End of boring at 50 feet bgs									
	51										
	52										
	53										
	54										
	55										
	56										
	57										
	58										

Drilling Log

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station	Project No.: 32088	Boring/Monitoring Well Number: SB48	
Coordinates: N 5290.74 E 4927.233	Ground Elevation: 6.19	Page: 1 of 2	
Total Depth (feet): 20	Hole Size (inches): 8 1/4	Driller (s): Mark Natali	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 11-30-04	To: 11-30-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier	Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
6	0	FILL: dusky yellowish Brown (10YR 2/2) silt, some fine gravel, some silty clay, little roots, little cinders, trace brick, medium dense to loose, moist		SS	1	2, 7, 14, 10	21	0.5/2		0.0	
4	2			SS	2	5, 8, 5, 6	13	1.4/2		0.0	
2	4			SS	3	4, 6, 3, 2	9	1.1/2		0.0	
0	6	FILL: pale yellowish Brown (10YR 6/2) silty clay with some black mottling, little medium to fine sand, little wood, trace cinders, trace brick, soft to very soft, low plasticity, moist		SS	4	1, 1, 1, 2	2	0.9/2		0.0	
-2	8			SS	5	1, 1, 1, 2	2	1.6/2	0.5	0.0	Sampled 8-10 feet (001)
-4	10	FILL: yellowish Brown (10YR 6/2) to olive Black (5Y 4/1), trace to little brick		SS	6	3, 9, 3, 3	12	1.3/2	<0.25	0.0	
-6	12			SS	7	2, 1, 1, 1	2	1.9/2	<0.25	0.0	

▽ Depth to water while drilling

▼ Depth to water after drilling

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name: Former Willow Street Station
Project Number: 32088

Boring/Monitoring Well Number: SB48
Page: 2 of 2
Date: 11-30-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-8	15	FILL: pale yellowish Brown (10YR 6/2) to olive Black (5Y 4/1) silty clay with some black mottling, little medium to fine sand, little wood, trace cinders, trace to little brick, very soft, low plasticity, moist		SS	8	2 1 1 1	2	0.7/2	<0.25	0.0	
-9	16										
-10	17	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, very soft, low plasticity, moist		SS	9	1 1 1 1	2	1.4/2	0.25	0.0	
-11	18										
-12	19			SS	10	1 1 2 2	3	2/2	<0.25	0.0	Sampled 18-20 feet (002)
-13	20	End of boring at 20 feet bgs									
	21										
	22										
	23										
	24										
	25										
	26										
	27										
	28										

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station	Project No.: 32088	Boring/Monitoring Well Number: SB49	
Coordinates: N 5254.403 E 4936.31	Ground Elevation: 6.68	Page: 1 of 2	
Total Depth (feet): 16	Hole Size (inches): 8 1/4	Driller (s): Mark Natali	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 11-30-04 To: 11-30-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier	Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
											▽ Depth to water while drilling ▼ Depth to water after drilling
6 / 5	1	FILL: dusky yellowish Brown (10YR 2/2) silt, some fine gravel, little coarse to fine sand, trace brick, trace cinders, loose, moist		SS	1	2 4 4 3	8	0.7/2		0.0	
4 / 3	2 3	Poor recovery due to matrix of Fill material		SS	2	7 5 7 7	12	0/2			
2 / 1	4 5	FILL: dusky yellowish Brown (10YR 2/2) silt, some fine gravel, some coarse to fine sand, loose, moist		SS	3	4 5 4 4	9	1.3/2		0.0	
0 / -1	6 7			SS	4	2 2 3 4	5	1.4/2	1.0	0.0	
-2 / -3	8 9 10	FILL: dark yellowish Brown (10YR 4/2) silty clay, little medium to fine sand, trace brick, medium stiff to very soft, low plasticity, moist		SS	5	2 2 2 2	4	2/2	1.0	0.0	Sampled 8-10 feet (001)
-4 / -5	11 12			SS	6	WOH 1 1 1	2	1.1/2	<0.25	0.0	WOH = weight of the hammer
-6 / -7	13	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace black silt lenses, trace coarse to fine sand, very soft to soft, low plasticity, moist		SS	7	2 2 1 1	3	1.4/2	<0.25	0.0	

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name	Former Willow Street Station
Project Number	32088
Boring/Monitoring Well Number	SB49
Page	2 of 2
Date	11-30-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-8	15	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace black silt lenses, trace coarse to fine sand, very soft to soft, low plasticity, moist		SS	8	1 1 1 1	2	1.8/2	0.5	0.0	Sampled 14-16 feet (002)
-9	16	End of boring at 16 feet bgs									
	17										
	18										
	19										
	20										
	21										
	22										
	23										
	24										
	25										
	26										
	27										
	28										

ENVIRONMENTAL LOG_GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station		Project No.: 32088	Boring/Monitoring Well Number: SB49B
Coordinates: N 5256.191 E 4940.29		Ground Elevation: 6.97	Page: 1 of 2
Total Depth (feet): 16	Hole Size (inches): 8 1/4	Driller (s): Mark Natali	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 12-2-04 To: 12-2-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier	Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
6	1	Advanced augers in offset boring location to collect sample at 14-16 feet bgs (SB49B-001)									▽ Depth to water while drilling ▼ Depth to water after drilling
5	2										
4	3										
3	4										
2	5										
1	6										
0	7										
-1	8										
-2	9										
-3	10										
-4	11										
-5	12										
-6	13										

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name: Former Willow Street Station
Project Number: 32088

Boring/Monitoring Well Number: SB49B
Page: 2 of 2
Date: 12-2-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-8	15	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, very soft, low plasticity, moist		SS	1	WOH 1 1 1	2	1.6/2	<0.25	0.0	Sampled 14-16 feet bgs (001) WOH = weight of the hammer
-9	16	End of boring at 16 feet bgs									
	17										
	18										
	19										
	20										
	21										
	22										
	23										
	24										
	25										
	26										
	27										
	28										

Drilling Log

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station		Project No.: 32088	Boring/Monitoring Well Number: SB50
Coordinates: N 5215.851 E 4947.002		Ground Elevation: 6.01	Page: 1 of 4
Total Depth (feet): 50	Hole Size (inches): 8 1/4	Driller (s): Mark Natali	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 11-29-04	To: 11-29-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier / Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
5	1	FILL: dark yellowish Brown (10YR 4/2) silt, slight solvent odor, some coarse sand, some cinders, little fine gravel, little rubber scrap, dense, moist		SS	1	3 6 27 31	33	1.4/2		171	
4	2										
3	3	FILL: dark yellowish Brown (10YR 4/2) sandy clay, some fine gravel, some brick, medium dense, moist		SS	2	13 6 12 17	18	1.2/2		5.1	
2	4										
1	5	FILL: dark yellowish Brown (10YR 4/2) some coarse sand, some fine gravel, some silt, little brick, medium dense, saturated		SS	3	6 7 7 12	14	1/2		0.0	
0	6										
-1	7	FILL: dark yellowish Brown (10YR 4/2) coarse to fine sand, some shell fragments, medium dense, saturated		SS	4	6 5 6 4	11	0.7/2		0.0	
-2	8										
-3	9	FILL: olive Gray (5Y 4/1) silty clay with black mottling, little to trace coarse to fine sand, trace cinders, soft to very soft, low plasticity, moist		SS	5	3 1 1 1	2	0.9/2		0.0	
-4	10										
-5	11			SS	6	1 2 1 2	3	1/2	0.5	154 1365	Sampled 10-12 feet (001)
-6	12										
-7	13	1" lens petroleum coated, petroleum odor		SS	7	WOH 1 2 1	3	1.4/2	<0.25	6.5 345	WOH = weight of the hammer

Depth to water while drilling ▽

Depth to water after drilling ▼

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station
Project Number: 32088

Boring/Monitoring Well Number: SB50
Page: 2 of 4
Date: 11-29-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-9	15	olive Gray (5Y 4/1) silty CLAY with dark gray to black staining, strong petroleum odor, trace coarse to fine sand, trace roots, soft, wet to saturated		SS	8	3 1 2 1	3	1.6/2	0.5	589 930	Sampled 14-16 feet (002), sheen on water
-10	16										
-11	17	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace black silt lenses, trace coarse to fine sand, medium stiff to very soft, low plasticity, moist		SS	9	1 1 2 3	3	1.3/2	0.75	0.0	
-12	18										
-13	19			SS	10	1 2 2 2	4	1.2/2	0.75	0.0	
-14	20										
-15	21			SS	11	WOH 1 1 1	2	1.3/2	<0.25	0.0	Sampled 20-22 feet (003)
-16	22										
-17	23	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, medium stiff to very soft, low plasticity, moist									
-18	24			SS	12	1 2 3 2	5	1.8/2	<0.25	0.0	
-19	25										
-20	26										
-21	27			SS	13	1 2 2 3	4	1.5/2	<0.25	0.0	
-22	28										
				SS	14	2	6	1.9/2	0.75	0.0	

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name: Former Willow Street Station
Project Number: 32088
Boring/Monitoring Well Number: SB50
Page: 3 of 4
Date: 11-29-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-24	30	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, very stiff, low plasticity, moist		SS	14	3 3 4	6	1.9/2	0.75	0.0	
-25	31										
-26	32										
-27	33										
-28	34			SS	15	5 7 9 12	16	0/2			
-29	35										
-30	36	very stiff stiff		SS	16	6 8 11 13	19	1.5/2	1.75	0.0	
-31	37										
-32	38										
-33	39	stiff to very stiff		SS	17	4 7 11 14	18	1.7/2	4.5	0.0	
-34	40										
-35	41										
-36	42										
-37	43										

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell SINCE 1898

Project Name	Former Willow Street Station
Project Number	32088
Boring/Monitoring Well Number	SB50
Page	4 of 4
Date	11-29-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-39	45	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, very stiff, low plasticity, moist		SS	18	5 8 11 14	19	1.4/2	2.25	0.0	
-40	46										
-41	47										
-42	48										
-43	49			SS	19	4 8 13 14	21	1.6/2	3.5	0.0	
	50	End of boring at 50 feet bgs									
	51										
	52										
	53										
	54										
	55										
	56										
	57										
	58										

Drilling Log

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station		Project No.: 32088	Boring/Monitoring Well Number: SB51
Coordinates: N 5163.152 E 4962.444		Ground Elevation: 5.50	Page: 1 of 2
Total Depth (feet): 20	Hole Size (inches): 8 1/4	Driller (s): Mark Natali	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 12-1-04 To: 12-1-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier	Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
5	1	FILL: dusky yellowish Brown (10YR 2/2) silt, some coarse to fine sand, trace fine gravel, trace brick, trace cinders, trace plastic debris, dense, dry to moist		SS	1	9 29 20 19	49	2/2		0.0	
4	2										
3	3	olive Black (5Y 2/1)		SS	2	22 11 6 5	17	1.2/2		0.0	
2	4										
1	5	FILL: dark yellowish Brown (10YR 4/2) silty clay, little brick, trace coarse to fine sand, trace cinders, very stiff to very soft, low plasticity, moist to wet		SS	3	3 5 7 9	12	0.9/2	2.25	0.0	
0	6			SS	4	1 1 1 2	2	1/2	0.5	0.0	
-1	7										
-2	8			SS	5	2 1 2 4	3	0.8/2	<0.25	0.0	
-3	9										
-4	10										Sampled 10-12 feet (001) Most of sample was free product with some to little water
-5	11	FILL: black (N1) silty clay, tar free product, strong tar odor, some fine gravel, soft to very soft, low plasticity, saturated		SS	6	3 3 4 3	7	1/2		11.1 24.2	
-6	12										
-7	13			SS	7	1 1 1 1	2	1.2/2		15 23.5	
-8											

Depth to water while drilling

Depth to water after drilling

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name: Former Willow Street Station
Project Number: 32088

Boring/Monitoring Well Number: SB51
Page: 2 of 2
Date: 12-1-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-9	15	FILL: black (N1) silty clay, tar free product, strong tar odor, some fine gravel, soft to very soft, low plasticity, saturated		SS	8	6 4 4 4	8	0.6/2		6.7	
-10	16										
-11	17	No Recovery, wood blocking shoe		SS	9	2 1 2 3	3	0/2			
-12	18										
-13	19	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, very soft, low plasticity, moist		SS	10	1 1 1 1	2	0.9/2	<0.25	0.0	Sampled 18-20 feet (002) tar globules smeared on outside of sample
-14	20	End of boring at 20 feet bgs									
	21										
	22										
	23										
	24										
	25										
	26										
	27										
	28										

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station	Project No.: 32088	Boring/Monitoring Well Number: SB51A	
Coordinates: N 5161.924 E 4962.81	Ground Elevation: 5.39	Page: 1 of 2	
Total Depth (feet): 18	Hole Size (inches): 8 1/4	Driller (s): Jaime Favela	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 12-3-04 To: 12-3-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier	Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
5	1	Advanced augers to 10 feet bgs to collect DNAPL sample - not analyzed.									▽ Depth to water while drilling; ▼ Depth to water after drilling
4	2										
3	3										
2	4										
1	5										
0	6										
-1	7										
-2	8										
-3	9										
-4	10										
-5	11	FILL: olive Gray (5Y 4/1) silty clay with black mottling, little to trace coarse to fine sand, trace glass, trace brick, medium stiff, low plasticity, moist to wet		SS	1	1 1 3 3	4	1.7/2	0.75	1.1	
-6	12	saturated									
-7	13			SS	2	WOH 2 1 1	3	0.6/2		17.8	water and tar in split spoon 12-18 feet bgs WOH = weight of the hammer
-8											

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name	Former Willow Street Station
Project Number	32088
Boring/Monitoring Well Number	SB51A
Page	2 of 2
Date	12-3-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-9	15	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, medium stiff to soft, low plasticity, moist		SS	3	WOH 1 1 1	2	1/2	0.75	20.6	
-10	16										
-11	17			SS	4	WOH 1 1 1	2	1.2/2	0.5	3.7	
-12	18	End of boring at 18 feet bgs									
	19										
	20										
	21										
	22										
	23										
	24										
	25										
	26										
	27										
	28										

Drilling Log

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station		Project No: 32088	Boring/Monitoring Well Number: SB51B
Coordinates: N 5164.141 E 4962.544		Ground Elevation: 5.41	Page: 1 of 2
Total Depth (feet): 18	Hole Size (inches): 8 1/4	Driller (s): Jaime Favela	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 12-3-04 To: 12-3-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier	Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
5	1	Blind drilled to 12 feet bgs to collect DNAPL sample - not analyzed.									▽ Depth to water while drilling; ▼ Depth to water after drilling
4	2										
3	3										
2	4										
1	5										
0	6										
-1	7										
-2	8										
-3	9										
-4	10										▽ Water encountered while drilling at 10 feet bgs
-5	11										
-6	12										
-7		FILL: olive Black (5Y 2/1) silt, little coarse to fine sand, little to trace fine gravel, trace wood, very loose, saturated				3					tar free product in water
-8	13			SS	1	1 1 1	2	2/2		1.3	

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell SINCE 1898

Project Name	Former Willow Street Station
Project Number	32088
Boring/Monitoring Well Number	SB51B
Page	2 of 2
Date	12-3-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-9	15	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, soft to very soft, low plasticity, moist		SS	2	WOH WOH 1 2		1.6/2	0.25	10.7	tar smear on outside of clay sample 13.6-18 feet bgs WOH = weight of the hammer
-10	16										
-11	17			SS	3	WOH 1 1 1	2	1.7/2	<0.25	14	
-12	18	End of boring at 18 feet bgs									
	19										
	20										
	21										
	22										
	23										
	24										
	25										
	26										
	27										
	28										

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station		Project No.: 32088	Boring/Monitoring Well Number: SB52
Coordinates: N 5156.42 E 5029.173		Ground Elevation: 6.34	Page: 1 of 2
Total Depth (feet): 14	Hole Size (inches): 8 1/4	Driller (s): Mark Natali	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 12-2-04	To: 12-2-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier / Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
											▽ Depth to water while drilling; ▼ Depth to water after drilling
6	0	FILL: disturbed to approximately 5 feet bgs by test pitting		SS	1	2, 9, 6, 6	15	1/2		8.7	
5	1										
4	2			SS	2	3, 4, 11, 20	15	1.6/2		252	
3	3										
2	4	tar saturated, strong tar odor		SS	3	16, 4, 5, 5	9	0.7/2		80.1	Water encountered while drilling at 4 feet bgs
1	5	FILL: dark yellowish Brown (10YR 4/2) silt, some fine gravel, some silty clay, little coarse to fine sand, trace cinders, trace brick, trace metal scrap debris, loose, wet to saturated									
0	6			SS	4	2, 5, 7, 10	12	1/2	3.5	68.2	Sampled 6-8 feet (001)
-1	7	FILL: moderate yellowish Brown (10YR 5/4) silty clay, trace coarse to fine sand, very stiff to stiff, low plasticity, moist									
-2	8			SS	5	3, 7, 5, 10	12	1.1/2	1.75	22.3	
-3	9	1/2" medium to coarse sand lens, tar coated, wet									
-4	10	very stiff		SS	6	8, 4, 6, 7	10	1.6/2	3.5	18.8	PID readings due to smear on outside of clay sample 10-14 feet bgs
-5	11										
-6	12			SS	7	3, 2, 5, 7	7	1.7/2	1.0	15.1	Sampled 12-14 feet (002)
-7	13	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, medium stiff, low plasticity, moist									

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name	Former Willow Street Station
Project Number	32088
Boring/Monitoring Well Number	SB52
Page	2 of 2
Date	12-2-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-8	15	End of boring at 14 feet bgs									
	16										
	17										
	18										
	19										
	20										
	21										
	22										
	23										
	24										
	25										
	26										
	27										
	28										

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station	Project No.: 32088	Boring/Monitoring Well Number: SB53	
Coordinates: N 5131.438 E 4970.517	Ground Elevation: 5.10	Page: 1 of 2	
Total Depth (feet): 20	Hole Size (inches): 8 1/4	Driller (s): Jaime Favela	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 12-3-04 To: 12-3-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier	Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
											▽ Depth to water while drilling ▼ Depth to water after drilling
5		FILL: dusky yellowish Brown (10YR 2/2) silt, some silty clay, little coarse to fine sand, little fine gravel, little cinders, trace scrap debris, very dense to very loose, dry to moist		SS	1	10 34 25 9	59	1.5/2		0.0	
4	1										
3	2			SS	2	10 7 5 4	12	0.8/2		0.0	
2	3										
1	4	saturated		SS	3	2 4 5 6	9	1/2		0.0	Water encountered while drilling at 4 feet bgs
0	5										
-1	6			SS	4	2 2 2 1	4	0.7/2		0.4	
-2	7	slight petroleum odor									
-3	8			SS	5	2 1 2 1	3	1.1/2	0.5	0.5	Sampled 8-10 feet (001)
-4	9	FILL: olive Black (5Y 2/1) silty clay, little coarse to fine sand, trace brick, soft, low plasticity, moist to wet									
-5	10			SS	6	1 1 1 2	2	1.2/2	0.25	0.6	
-6	11										
-7	12	5" lens of fine gravel and coarse sand, tar coated, tar odor		SS	7	4 4 2 1	6	1.2/2	<0.25	7.3	
-8	13	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, very soft to soft, low plasticity, moist									

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station
Project Number: 32088
Boring/Monitoring Well Number: SB53
Page: 2 of 2
Date: 12-3-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	Sampling: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-9	15	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, very soft to soft, low plasticity, moist trace tar coated black silt lenses 15 - 16.7 feet bgs		SS	8	WOH 1 1 2	2	1.4/2	<0.25	22.7	Sampled 14-16 feet (002) WOH = weight of the hammer tar globules smeared on outside of clay sample, strong tar odor
-11	16										14-20 feet bgs, PID readings due to smear 14-20 feet bgs
-12	17			SS	9	1 2 1 1	3	1.1/2		2.7	
-13	18										Sampled 18-20 feet (003)
-14	19			SS	10	1 2 3 23	5	1.3/2	0.5	7.5	
	20	End of boring at 20 feet bgs									
	21										
	22										
	23										
	24										
	25										
	26										
	27										
	28										

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station	Project No.: 32088	Boring/Monitoring Well Number: SB54	
Coordinates: N 5187.477 E 5020.284	Ground Elevation: 6.92	Page: 1 of 2	
Total Depth (feet): 16	Hole Size (inches): 8 1/4	Driller (s): Mark Natali	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 12-2-04 To: 12-2-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier	Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
											▽ Depth to water while drilling; ▼ Depth to water after drilling
6	1	FILL: disturbed to approximately 6 feet bgs by test pitting		SS	1	2, 2, 1, 7	3	0.4/2		2.4	
5	2			SS	2	20, 17, 17, 22	34	1.6/2		186	Water encountered while drilling at 2 feet bgs
4	3										
3	4										
2	5	coal tar saturated, some free product, strong tar odor		SS	3	11, 13, 12, 28	25	1.4/2		446	
1	6	FILL: dusky yellowish Brown (10YR 2/2) silt, some coarse to fine sand, little fine gravel, trace wood, trace metal scrap debris, trace brick, medium dense, wet to saturated		SS	4	6, 3, 5, 11	8	1.1/2		179	
0	7										
-1	8			SS	5	4, 5, 7, 11	12	1.2/2	4.5+	148	Sampled 8-10 feet (001); PID readings due to smear on outside of clay sample 9-16 feet bgs
-2	9	moderate yellowish Brown (10YR 5/4) silty CLAY (CL), trace coarse to fine sand, hard to very stiff, low plasticity, moist									
-3	10										
-4	11			SS	6	3, 5, 7, 8	12	1.3/2	4.25	1.9	
-5	12										
-6	13	pale yellowish Brown (10YR 6/2)		SS	7	4, 5, 7, 8	12	1.6/2	3.75	8.2	
-7											

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name: Former Willow Street Station
Project Number: 32088

Boring/Monitoring Well Number: SB54
Page: 2 of 2
Date: 12-2-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
	15					3	·				Sampled 14-16 feet (002)
-8	15	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, medium stiff, low plasticity, moist		SS	8	5 6 7	11	1.2/2	1.5	49.4	
-9	16	End of boring at 16 feet bgs									
	17										
	18										
	19										
	20										
	21										
	22										
	23										
	24										
	25										
	26										
	27										
	28										

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station	Project No.: 32088	Boring/Monitoring Well Number: SB55	
Coordinates: N 5137.089 E 5032.795	Ground Elevation: 6.68	Page: 1 of 2	
Total Depth (feet): 14	Hole Size (inches): 8 1/4	Driller (s): Mark Natali	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 12-2-04 To: 12-2-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier	Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
											▽ Depth to water while drilling ▼ Depth to water after drilling
6	1	FILL: disturbed to approximately 6 feet bgs by test pitting		SS	1	1 1 3 3	4	0.8/2		43.6	
5	2			SS	2	1 2 1 2	3	0.4/2		11.6	
4	3										
3	4										
2	5	tar coated, tar odor, sheen on water, saturated		SS	3	3 26 21 8	47	1/2		80.8	
1	6										
0	7	FILL: dusky yellowish Brown (10YR 2/2), some silt, some silty clay, little to some coarse to fine sand, trace fine gravel, trace brick, trace wood, medium dense, wet		SS	4	5 7 7 8	14	1.3/2	2.5	10.6	Sampled 6-8 feet (001)
-1	8	moderate yellowish Brown (10YR 5/4) silty CLAY (CL), little to trace coarse to fine sand, very stiff, low plasticity, moist		SS	5	3 7 8 10	15	1.5/2	3.0	2.1	PID readings from tar impacted smear on outside of clay sample 8-14 feet bgs
-2	9										
-3	10										
-4	11			SS	6	3 6 6 8	12	1.9/2	3.5	12.2	
-5	12										Sampled 12-14 feet (002)
-6	13	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, very soft, low plasticity, moist		SS	7	3 3 4 5	7	1.5/2	3.25 0.25	3.3	
-7											

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name	Former Willow Street Station
Project Number	32088
Boring/Monitoring Well Number	SB55
Page	2 of 2
Date	12-2-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	SAMPLING: Sample Interval	SAMPLING: Blow Counts per 0.5'	SAMPLING: N Value	SAMPLING: Sample Recovery/Length (feet)	SAMPLING: Penetrometer (TSF)	PID Reading (PPM)	Remarks
-8	15	End of boring at 14 feet bgs									
	16										
	17										
	18										
	19										
	20										
	21										
	22										
	23										
	24										
	25										
	26										
	27										
	28										

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station		Project No.: 32088	Boring/Monitoring Well Number: SB56
Coordinates: N 5092.52 E 4981.908		Ground Elevation: 5.10	Page: 1 of 2
Total Depth (feet): 20	Hole Size (inches): 8 1/4	Driller (s): Mark Natali	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 11-29-04 To: 11-29-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier	Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
											▽ Depth to water while drilling ▼ Depth to water after drilling
5		FILL: dusky yellowish Brown (10YR 2/2) silt, some to little coarse to fine sand, some to little fine gravel, little to trace brick, trace cinders, very dense, moist		SS	1	9 10 39 27	49	1.5/2		0.0	
4	1										
3	2			SS	2	9 6 4 6	10	1.6/2	2.75	0.0	
2	3	FILL: dark yellowish Brown (10YR 4/2) silty clay with black mottling, trace coarse to fine sand, trace brick, trace cinders, very stiff to medium stiff, low plasticity, moist									
1	4			SS	3	2 4 3 2	7	1.4/2	1.0	0.0	
0	5										
-1	6			SS	4	1 2 2 2	4	1.2/2	1.0	0.0	
-2	7	2" cinder lens									
-3	8			SS	5	1 WOH 1 1		1.8/2	0.5	0.0	WOH = weight of the hammer
-4	9	dusky yellowish Brown (10YR 2/2), trace fibers									
-5	10			SS	6	1 7 9 5	16	1.1/2	1.0	0.0	
-6	11	5" wood									
-7	12	No Recovery 12 - 14 feet bgs. Change in material inferred.		SS	7	1 1 1 2	2	0/2			
-8	13	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace medium to fine sand, soft to medium stiff, low plasticity, moist									

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name: Former Willow Street Station
Project Number: 32088

Boring/Monitoring Well Number: SB56
Page: 2 of 2
Date: 11-29-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-9	15	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace medium to fine sand, soft to medium stiff, low plasticity, moist		SS	8	1 1 2 2	3	1.3/2	0.5	0.0	
-10	16										
-11	17			SS	9	1 1 2 3	3	1.4/2	0.75	0.0	
-12	18	medium stiff to soft									Sampled 18-20 feet (001)
-13	19			SS	10	1 1 1 3	2	1.6/2	0.25	0.0	
-14	20	End of boring at 20 feet bgs									
	21										
	22										
	23										
	24										
	25										
	26										
	27										
	28										

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station	Project No.: 32088	Boring/Monitoring Well Number: SB57	
Coordinates: N 5054.921 E 4994.641	Ground Elevation: 4.81	Page: 1 of 4	
Total Depth (feet): 50	Hole Size (inches): 8 1/4	Driller (s): Mark Natali	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 11-30-04 To: 11-30-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier	Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
4	1	FILL: dusky yellowish Brown (10YR 2/2) silt, some silty clay, little fine gravel, little cinders, little coarse to fine sand, trace glass, trace brick, medium dense, moist to wet		SS	1	25 16 10 7	26	1.5/2		0.0	
3	2										
2	3	FILL: olive Black (5Y 2/1) cinders, little to trace silty clay, loose, moist		SS	2	4 4 4 4	8	1.7/2		0.0	
1	4										
0	5			SS	3	1 2 1 1	3	2/2		0.0	
-1	6	FILL: olive Black (5Y 2/1) silt, little to trace cinders, little to trace wood fibers, trace medium to fine sand, very loose, moist		SS	4	1 WOH 1 WOH		1.8/2		0.0	WOH = weight of the hammer
-2	7										
-3	8										
-4	9			SS	5	1 WOH 1 1		1.3/2		0.0	
-5	10										Sampled 10-12 feet (001)
-6	11	FILL: olive Black (5Y 2/1) silty clay to silt, trace wood fibers, trace coarse to fine sand, very loose, moist		SS	6	1 2 1 1	3	0.8/2	<0.25	0.0	
-7	12										
-8	13			SS	7	1 WOH 1 2		1.8/2	0.25	0.0	
-9											

▽ Depth to water while drilling

▼ Depth to water after drilling

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name: Former Willow Street Station
Project Number: 32088
Boring/Monitoring Well Number: SB57
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Date: 11-30-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-10	15	FILL: olive Black (5Y 2/1) silty clay to silt, trace wood fibers, trace coarse to fine sand, very loose, moist									
		pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, medium stiff to soft, low plasticity, moist		SS	8	1 1 2 4	3	1.6/2	0.75	0.0	
-11	16										Sampled 16-18 feet (002)
-12	17			SS	9	1 1 3 4	4	1.4/2	1.0	0.0	
-13	18										
-14	19			SS	10	1 2 3 3	5	1.6/2	0.25	0.0	
-15	20										
-16	21	soft to medium stiff									
-17	22			SS	11	1 2 3 3	5	2/2	0.75	0.0	
-18	23										
-19	24	medium stiff to soft									
-20	25			SS	12	1 2 2 2	4	2/2	0.25	0.0	
-21	26										
-22	27	soft to medium stiff		SS	13	1 1 2 3	3	2/2	0.75	0.0	
-23	28										
-24				SS	14	2	5	2/2	0.75	0.0	

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name Former Willow Street Station
Project Number 32088

Boring/Monitoring Well Number SB57
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Date 11-30-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-25	30	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, medium stiff to soft, low plasticity, moist		SS	14	2 3 3	5	2/2	0.75	0.0	
-26	31	soft to stiff									
-27	32			SS	15	2 5 8 9	13	1.8/2	2.0	0.0	
-28	33										
-29	34			SS	16	3 5 7 11	12	1.6/2	2.0	0.0	
-30	35										
-31	36										
-32	37			SS	17	3 5 7 10	12	2/2	1.75	0.0	
-33	38										
-34	39	stiff to very stiff		SS	18	3 5 8 9	13	2/2	2.75	0.0	
-35	40										
-36	41	very stiff to stiff									
-37	42			SS	19	2 4 5 7	9	2/2	1.25	0.0	
-38	43										
-39				SS	20	3	12	2/2	2.0	0.0	

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name	Former Willow Street Station
Project Number	32088
Boring/Monitoring Well Number	SB57
Page	4 of 4
Date	11-30-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-40	45	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, medium stiff to soft, low plasticity, moist		SS	20	5 7 9	12	2/2	2.0	0.0	
-41	46										
-42	47			SS	21	3 5 7 8	12	1.7/2	1.75	0.0	
-43	48	soft to very stiff									
-44	49			SS	22	3 5 9 11	14	1.8/2	2.5	0.0	
-45	50	End of boring at 50 feet bgs									
	51										
	52										
	53										
	54										
	55										
	56										
	57										
	58										

ENVIRONMENTAL LOG_GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station		Project No.: 32088	Boring/Monitoring Well Number: SB58A
Coordinates: N 5010.333 E 5006.856		Ground Elevation: 7.32	Page: 1 of 1
Total Depth (feet): 3.5	Hole Size (inches): 8 1/4	Driller (s): Mark Natali	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 12-1-04 To: 12-1-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier	Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
7	0	FILL: dusky yellowish Brown (10YR 2/2) silt, some to little coarse to fine sand, little fine gravel, little roots, loose, moist		SS	1	1 2 3 2	5	0.7/2		1.9	
6	1										
5	2	some scrap debris, some fine gravel, concrete powder in shoe		SS	2	2 4 57/3"		0.2/2			
4	3										
	4	Refusal - End of boring at 3.5 feet bgs									
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
	13										

▽ Depth to water while drilling

▼ Depth to water after drilling

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log

Burns & McDonnell
SINCE 1898

Project Name: Former Willow Street Station	Project No.: 32088	Boring/Monitoring Well Number: SB58B	
Coordinates: N 5011.364 E 5008.618	Ground Elevation: 7.50	Page: 1 of 1	
Total Depth (feet): 3.5	Hole Size (inches): 8 1/4	Driller (s): Mark Natali	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 12-1-04 To: 12-1-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier	Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
7	1	FILL: dusky yellowish Brown (10YR 2/2) silt, little scrap debris, little fine gravel, little coarse to fine sand, trace brick, trace cinders, very loose to loose, dry to moist		SS	1	2 2 2 3	4	0.7/2		0.7	
6	2										
5	3			SS	2	10 7 50/4"		0/2			
4		concrete powder in shoe									
	4	Refusal - End of boring at 3.5 feet bgs									
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
	13										

Depth to water while drilling

Depth to water after drilling

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log

Burns & McDonnell
SINCE 1898

Project Name: Former Willow Street Station		Project No.: 32088	Boring/Monitoring Well Number: SB58C
Coordinates: N 5008.933 E 5010.491		Ground Elevation: 7.39	Page: 1 of 1
Total Depth (feet): 3.5	Hole Size (inches): 8 1/4	Driller (s): Mark Natali	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 12-1-04 To: 12-1-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier	Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
7	0	FILL: dusky yellowish Brown (10YR 2/2) silt, little scrap debris, some to little coarse to fine sand, trace roots, loose, moist		SS	1	2 2 3 8	5	1/2		0.0	
6	1										
5	2			SS	2	8 10 50/2"		1.5/1.5		0.3	
4	3	concrete powder in shoe Refusal - End of boring at 3.5 bgs									
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
	13										

Depth to water while drilling

Depth to water after drilling

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station	Project No.: 32088	Boring/Monitoring Well Number: SB58D	
Coordinates: N 5016.131 E 5012.265	Ground Elevation: 7.02	Page: 1 of 2	
Total Depth (feet): 18	Hole Size (inches): 8 1/4	Driller (s): Mark Natali	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 12-2-04	To: 12-2-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier	Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
6	1	FILL: dark yellowish Brown (10YR 5/4) silt, some coarse to fine sand, some fine gravel, trace brick, loose, dry to moist		SS	1	3 4 4 4	8	0.8/2		0.0	
5	2	dense, drilled through obstruction 2 - 2.5 feet bgs									
4	3			SS	2	41 16 20 20	36	0.8/2		0.0	
3	4										
2	5			SS	3	7 4 3 1	7	0/2			
1	6	FILL: olive Gray (5Y 4/1) silty clay, some brick, some coarse to fine sand, very soft, wet		SS	4	1 WOH 1 WOH		1.25/2	<0.25	0.0	WOH = weight of the hammer
0	7										
-1	8			SS	5	1 WOH 1 WOH		1.1/2	<0.25	5.2	Sampled 8-10 feet (001)
-2	9	petroleum odor									
-3	10										
-4	11	FILL: olive Black (5Y 2/1) silty clay, some wood fibers, little to trace brick, soft, low plasticity, moist		SS	6	WOH		2/2	0.25	2.7	
-5	12										Sampled 12-14 feet (002) MS/MSD
-6	13			SS	7	WOH		1.3/2	0.5	0.0	

Depth to water while drilling

Depth to water after drilling

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name	Former Willow Street Station
Project Number	32088
Boring/Monitoring Well Number	SB58D
Page	2 of 2
Date	12-2-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-8	15	FILL: olive Black (5Y 2/1) silty clay, some wood fibers, little to trace brick, soft, low plasticity, moist trace wood fibers		SS	8	WOH		2/2	0.25	1.5	
-9	16					1					Sampled 16-18 feet (003) MS/MSD
-10	17	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, soft, low plasticity, moist		SS	9	1 1 2	2	0.7/2	0.5	0.0	
	18	End of boring at 18 feet bgs									
	19										
	20										
	21										
	22										
	23										
	24										
	25										
	26										
	27										
	28										

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

Drilling Log

Burns & McDonnell SINCE 1898

Project Name: Former Willow Street Station	Project No.: 32088	Boring/Monitoring Well Number: SB59	
Coordinates: N 5174.428 E 5068.572	Ground Elevation: 8.00	Page: 1 of 2	
Total Depth (feet): 18	Hole Size (inches): 8 1/4	Driller (s): Jaime Favela	
Drilling Rig: Diedrich D120		Drilling Company: CS Drilling Company	
Date: 12-3-04	To: 12-3-04	Logged By: Kathi Wotal	Reviewed by: Jason Blazier	Approved by: Scott Letzel

Elevation (feet)	Depth (feet)	Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
											▽ Depth to water while drilling ▼ Depth to water after drilling
7	1	FILL: dusky yellowish Brown (10YR 2/2) silt, some medium sand, little silty clay, little fine gravel, trace brick, trace cinders, medium dense, moist		SS	1	6 10 12 12	22	1.4/2		2.3	
6	2										
5	3	FILL: olive Gray (5Y 4/1) poorly graded medium to fine sand, medium dense, wet		SS	2	6 7 4 3	11	1.7/2	3.5	1.5	
4	4	FILL: olive Gray (5Y 4/1) silty clay with orange mottling, trace coarse to fine sand, very stiff, low plasticity, moist									
3	5			SS	3	3 3 5 5	8	1.1/2	3.5	1.1	
2	6	dusky yellowish Brown (10YR 4/2) silty CLAY (CL) with orange mottling, trace coarse to fine sand, hard to very stiff, low plasticity, moist		SS	4	4 5 7 12	12	1.9/2	4.5+	0.0	Sampled 6-8 feet (001)
1	7										
0	8			SS	5	3 5 8 9	13	1.7/2	4.0	0.5	
-1	9	trace roots									
-2	10	very stiff to hard		SS	6	3 5 7 8	12	1.7/2	4.25	0.0	
-3	11										
-4	12	hard to very stiff		SS	7	3 5 7 9	12	2/2	2.75	0.0	
-5	13										

Drilling Log, continued

Burns & McDonnell
SINCE 1898

Project Name	Former Willow Street Station
Project Number	32088
Boring/Monitoring Well Number	SB59
Page	2 of 2
Date	12-3-04

Elevation (feet)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-7	15	dusky yellowish Brown (10YR 4/2) silty CLAY (CL) with orange mottling, trace coarse to fine sand, hard to very stiff, low plasticity, moist		SS	8	2 4 4 7	8	1.9/2	3.0	0.0	
-8	16										Sampled 16-18 feet (002)
-9	17	pale yellowish Brown (10YR 6/2) silty CLAY (CL), trace coarse to fine sand, stiff, low plasticity, moist		SS	9	2 4 5 4	9	1.5/2	1.0	0.0	
-10	18	End of boring at 18 feet bgs									
	19										
	20										
	21										
	22										
	23										
	24										
	25										
	26										
	27										
	28										

ENVIRONMENTAL LOG GENERAL IRON 1204.GPJ BURNS_MO.GDT 11/8/05

APPENDIX C
SUPPLEMENTAL SITE INVESTIGATION SAMPLING DATA VALIDATION MEMORANDUM, LAB ACCREDITATION, AND ANALYTICAL DATA THE FORMER WILLOW STREET STATION MANUFACTURED GAS PLANT SITE, 1640 NORTH KINGSBURY PORTION

BURNS & McDONNELL

Client:	Peoples Gas	Prepared By:	Saba Athif
Site:	The Former Willow Street Gas Manufactured Gas Plant Site, 1640 North Kingsbury Portion	Date:	December 16, 2004
Project #:	32088	Checked By:	Christy Barry
File No.:	I7	Date:	December 29, 2004
Title:	Data Validation of Soil Samples Collected November 29 through December 2, 2004		

PURPOSE

The purpose of this document is to present the evaluation and validation of soil sampling analytical results.

VALIDATION CRITERIA

The evaluation and validation consisted of the following:

- Evaluated analytical holding times and sample preservation.
- Evaluated surrogate recoveries.
- Evaluated laboratory control samples and laboratory control sample duplicates (LCS/LCSD).
- Evaluated laboratory blank analyses.
- Evaluated field matrix spike/matrix spike duplicate (MS/MSD) analyses.
- Reviewed laboratory case narratives.

SAMPLING EFFORT

Thirty (30) soil samples were collected for chemical analysis at the 1640 North Kingsbury portion of the former Willow Street Station manufactured gas plant site in Chicago, Illinois (Site) on November 29 through December 2, 2004.

LABORATORY

Samples were analyzed and validated by STAT Analysis Corporation (STAT) of Chicago, Illinois in accordance with Illinois Environmental Protection Agency (Illinois EPA) Site Remediation Program (SRP) requirements for analytical data reduction and validation.

CONCLUSIONS

Laboratory data have been reviewed and are acceptable for use with qualification. STAT performed laboratory validation and determined that all chemical analytical results were usable. Burns & McDonnell performed further evaluation and validation and determined that the overall quality of the chemical analytical results was acceptable. However, due to poor surrogate recovery, some resultant values were qualified estimated "J" and estimated non-detect "UJ."

REFERENCES

The following reference documents were used:

(1) Illinois Administrative Code, 1998. *Site Remediation Program*, Title 35: Environmental Protection, Subtitle G: Waste Disposal, Chapter I: Pollution Control Board, Part 740.

(2) USEPA, 1986. *Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, EPA Publication No. SW-846, [Third Edition (September 1986), as amended by Updates I (July 1992), II (September 1994), IIA (August 1993), IIB (January 1995), III (December 1996), Draft IVA (January 1998), Daft IVB (November 2000)].

(3) United States Environmental Protection Agency (USEPA), 1999. *Contract Laboratory Program National Functional Guidelines for Organic Data Review*, October.

SAMPLE INFORMATION

Table 1 presents sample numbers and analyses requested. Table 2 lists the methods used to analyze the soil samples for chemical parameters.

HOLDING TIME AND SAMPLE PRESERVATION EVALUATION

Table 3 presents the analytical holding times that were used to evaluate and validate the extractions and analyses performed. All sample extractions and analyses were performed within the holding time; therefore, no qualification was necessary. All samples were received at STAT within the acceptable sample preservation temperature; therefore no qualification was necessary.

SURROGATE RECOVERY EVALUATION

Surrogate recoveries were generally within the acceptable laboratory limits; except for the following:

- Surrogate recoveries were below the required range for volatile organic compound (VOC) analyses for the samples SB50-003 (non-diluted results only), SB52-002, SB53-003, SB58-002 and SB58-003. Therefore, all detected results for the above mentioned samples were qualified estimated "J" and all non-detect results were qualified estimated non-detect "UJ."
- One semi-volatile organic compound (SVOC) surrogate was outside acceptable limits for acid or base/neutral fraction in a few samples; however, no qualification is necessary unless two or more SVOC surrogates are outside acceptable limits for each fraction. Therefore, no samples were qualified based on SVOC surrogate recovery.

LABORATORY CONTROL SAMPLE EVALUATION

Laboratory control samples were prepared and run for this sampling event. A few LCS or LCSD sample recoveries for some VOCs and SVOCs were above the acceptable recovery limits. All primary results associated with these LCS/LCSD results were non-detect; therefore, no qualification was necessary.

LABORATORY BLANK ANALYSIS EVALUATION

Laboratory blanks were prepared and run for this sampling event. Laboratory blank results were non-detect or detected below the reporting limit; therefore, no qualification was necessary.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE EVALUATION

One surface soil, SB58-001, and one subsurface soil, SB58-002, field matrix spike/matrix spike duplicate (MS/MSD) samples were prepared and run for this sampling event. Visually, these samples appeared non-impacted, however, laboratory analyses showed the presence of high concentrations of total petroleum hydrocarbons (TPH) and polynuclear aromatic hydrocarbons (PAHs) in sample SB58-001, and elevated concentrations of PAHs in sample SB58-002. Laboratory blank and LCS/LCSD results were acceptable for all VOC and SVOC samples, and surrogate recoveries were also acceptable, except for the five VOC samples that were qualified as discussed above. Since these other quality control results were generally acceptable, no qualification was required based on field MS/MSD samples with interference from TPH or PAHs.

LABORATORY CASE NARRATIVE REVIEW

A review of the STAT Analysis Corporation laboratory case narratives indicates that the overall quality of the chemical analytical results was acceptable; therefore, no qualification was necessary.

Table 1
List of Sample Numbers and Analyses
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Sample Number	Analyses
WSS-SB46-001	Target compound list (TCL) volatile organic compounds (VOCs), TCL semivolatile organic compounds (SVOCs), polynuclear aromatic hydrocarbons (PAHs), and total petroleum hydrocarbons (TPH).
WSS-SB46-002	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB47-001	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB47-002	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB48-001	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB48-002	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB49-001	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB49B-001	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB50-001	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB50-002	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB50-003	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB51-001	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB51-002	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB52-001	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB52-002	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB53-001	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB53-002	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB53-003	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB54-001	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB54-002	TCL VOCs, TCL SVOCs , PAHs, and TPH.
WSS-SB55-001	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB55-002	TCL VOCs, TCL SVOCs, PAHs, and TPH.

Table 1 (Continued)
List of Sample Numbers and Analyses
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Sample Number	Analyses
WSS-SB56-001	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB57-001	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB57-002	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB58-001	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB58-002	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB58-003	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB59-001	TCL VOCs, TCL SVOCs, PAHs, and TPH.
WSS-SB59-002	TCL VOCs, TCL SVOCs, PAHs, and TPH.

Table 2
Analytical Methods
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Parameter	Analytical Method[1]
TCL VOCs[2]	8260B
TCL SVOCs	8270C
PAHs	8270-SIM
TPH	8015M

NOTE:
(1) USEPA 1986
(2) Sampled using USEPA Method 5035.

Table 3
Analytical Holding Times
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Analyses	Holding Time From Sample Collection[1]
TCL VOCs	14 days
TCL SVOCs and PAHs	14 days pre-extraction, 40 days post extraction
TPH	14 days

NOTE:
(1) USEPA 1986

LAB ACCREDITATION

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY
NELAP - RECOGNIZED
ENVIRONMENTAL LABORATORY ACCREDITATION

is hereby granted to

STAT ANALYSIS CORPORATION

2201 WEST CAMPBELL PARK DRIVE

CHICAGO, IL 60612-3547

NELAP ACCREDITED
ACCREDITATION NUMBER #100445

According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part 186 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part 186. Please contact the Illinois EPA Environmental Laboratory Accreditation Program (IL ELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Illinois is not an endorsement or a guarantee of validity of the data generated by the laboratory.

Jeff Johnston
Manager
Division of Laboratories

Janet Cruse
Accreditation Officer
Environmental Laboratory Accreditation Program

Certificate No.: 001115
Expiration Date: 09/30/2005
Issued On: 09/27/2004

State of Illinois
Environmental Protection Agency

Certificate No.: 001115

Awards the Certificate of Approval

STAT Analysis Corporation
2201 West Campbell park Drive
Chicago, IL 60612-3547

According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

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Hazardous and Solid Waste, Inorganic

1010

Ignitability

1311

TCLP (Organic and Inorganic)

1312

Synthetic Precipitation Leaching Procedure

6020

Aluminum	Antimony	Arsenic
Barium	Beryllium	Boron
Cadmium	Calcium	Chromium
Cobalt	Copper	Iron
Lead	Magnesium	Manganese
Nickel	Potassium	Selenium
Silver	Sodium	Thallium
Vanadium	Zinc	

7196A

Chromium VI

7470A

Mercury

7471A

Mercury

9012A

Cyanide

9040B

Hydrogen Ion (pH)

9045C

Hydrogen Ion (pH)

9066

Phenolics

9095A

Paint Filter

Chapter 7/9014

Reactive Cyanide

Chapter 7/9034

Reactive Sulfide

State of Illinois
Environmental Protection Agency

Certificate No.: 001115

Awards the Certificate of Approval

STAT Analysis Corporation
2201 West Campbell park Drive
Chicago, IL 60612-3547

Hazardous and Solid Waste, Organic

8015B

Diesel range organics (DRO)	Gasoline range organics (GRO)	

8081A

4,4'-DDD	4,4'-DDE	4,4'-DDT
Aldrin	alpha-BHC	alpha-Chlordane
beta-BHC	Chlordane - not otherwise specified	delta-BHC
Dieldrin	Endosulfan I	Endosulfan II
Endosulfan sulfate	Endrin	Endrin aldehyde
Endrin ketone	gamma-BHC (Lindane)	gamma-Chlordane
Heptachlor	Heptachlor epoxide	Methoxychlor
Toxaphene		

8082

PCB-1016	PCB-1221	PCB-1232
PCB-1242	PCB-1248	PCB-1254
PCB-1260		

8260B

1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene
1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane
1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene
1,3-Dichloropropane	1,4-Dichlorobenzene	1,4-Dioxane
2,2-Dichloropropane	2-Butanone (Methyl ethyl ketone, MEK)	2-Chloroethyl vinyl ether
2-Chlorotoluene	2-Hexanone	2-Methyl-1-propanol (Isobutyl alcohol)
2-Nitropropane	2-Propanol (Isopropyl alcohol)	4-Chlorotoluene
4-Methyl-2-pentanone (Methyl isobutyl ketone, I	Acetone	Acrolein (Propenal)
Acrylonitrile	Benzene	Bromobenzene
Bromochloromethane	Bromodichloromethane	Bromoform
Bromomethane	Carbon disulfide	Carbon tetrachloride
Chlorobenzene	Chlorodibromomethane (Dibromochloromethan	Chloroethane
Chloroform	Chloromethane	cis-1,2-Dichloroethene
cis-1,3-Dichloropropene	Dibromomethane	Dichlorodifluoromethane
Dichloromethane (Methylene chloride)	Diethyl ether	Ethyl acetate
Ethyl ether	Ethylbenzene	Hexachlorobutadiene
Isopropylbenzene	Methyl ethyl ketone	Methyl isobutyl ketone
Methyl-t-butyl ether	m-Xylene	Naphthalene
n-Butanol	n-Butylbenzene	o-Xylene
p-Isopropyltoluene	p-Xylene	sec-Butylbenzene
Styrene	tert-Butylbenzene	Tetrachloroethene
Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene
Trichloroethene	Trichlorofluoromethane	Vinyl acetate
Vinyl chloride	Xylenes (Total)	

8270C

1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,2-Diphenylhydrazine

State of Illinois
Environmental Protection Agency

Certificate No.: 001115

Awards the Certificate of Approval

STAT Analysis Corporation
2201 West Campbell park Drive
Chicago, IL 60612-3547

Hazardous and Solid Waste, Organic

8270C

1,4-Dichlorobenzene	1,4-Dinitrobenzene	1,3-Dichlorobenzene
2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	1-Methylnaphthalene
2,4-Dichlorophenol	2,4-Dimethylphenol	2,4,6-Trichlorophenol
2,4-Dinitrotoluene (2,4-DNT)	2,6-Dinitrotoluene (2,6-DNT)	2,4-Dinitrophenol
2-Chlorophenol	2-Methylnaphthalene	2-Chloronaphthalene
2-Nitroaniline	2-Nitrophenol	2-Methylphenol
3-Nitroaniline	4,6-Dinitro-2-methylphenol	3,3'-Dichlorobenzidine
4-Chloro-3-methylphenol	4-Chloroaniline	4-Bromophenyl phenyl ether
4-Methylphenol	4-Nitroaniline	4-Chlorophenyl phenyl ether
Acenaphthene	Acenaphthylene	4-Nitrophenol
Anthracene	Benzidine	Aniline
Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(a)anthracene
Benzo(k)fluoranthene	Benzoic acid	Benzo(g,h,i)perlyene
Bis(2-chloroethoxy) methane	Bis(2-chloroethyl) ether	Benzyl alcohol
Bis(2-ethylhexyl) phthalate	Butyl benzyl phthalate	Bis(2-chloroisopropyl) ether
Chrysene	Dibenz(a,h)anthracene	Carbazole
Diethyl phthalate	Dimethyl phthalate	Dibenzofuran
Di-n-octyl phthalate	Diphenylamine	Di-n-butyl phthalate
Fluorene	Hexachlorobenzene	Fluoranthene
Hexachlorocyclopentadiene	Hexachloroethane	Hexachlorobutadiene
Isophorone	m-Cresol (3-Methylphenol)	Indeno(1,2,3-cd) pyrene
Nitrobenzene	N-Nitrosodimethylamine	Naphthalene
N-Nitrosodiphenylamine	o-Cresol (2-Methylphenol)	N-Nitrosodi-n-propylamine
Pentachlorophenol	Phenanthrene	p-Cresol (4-Methylphenol)
Pyrene	Pyridine	Phenol

8321A

2,4,5-T	2,4,5-TP (Silvex)	2,4-D
2,4-DB	Dalapon	Dicamba
Dichlorprop	Dinoseb	MCPA
MCPP		

ANALYTICAL DATA

STAT Analysis Corporation
2201 West Campbell Park Drive Chicago, IL 60612-3547
Tel: (312) 563-0371 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

December 15, 2004

Burns & McDonnell
2601 W. 22nd Street
OakBrook, IL 60523-1229
Telephone: (312) 563-0371
Fax: (630) 990-0301

RE: 32088 Willow Street Station- General Iron STAT Project No: 0411515

Dear Diane Saftic:

STAT Analysis received 4 samples for the referenced project on 11/29/2004. The analytical results are presented in the following report.

This report is revised to reflect changes made after the initial report was issued.

All analyses were performed in accordance with the requirements of 35 IAC part 186 (Accreditation #100445). Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Craig Chawla
Project Manager

STAT Analysis Corporation

Date: December 15, 2004

Client: Burns & McDonnell
Project: 32088 Willow Street Station- General Iron
Lab Order: 0411515

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0411515-001A	WSS-SB50-001		11/29/2004 10:30:00 AM	11/29/2004
0411515-001B	WSS-SB50-001		11/29/2004 10:30:00 AM	11/29/2004
0411515-002A	WSS-SB50-002		11/29/2004 10:45:00 AM	11/29/2004
0411515-002B	WSS-SB50-002		11/29/2004 10:45:00 AM	11/29/2004
0411515-003A	WSS-SB50-003		11/29/2004 11:05:00 AM	11/29/2004
0411515-003B	WSS-SB50-003		11/29/2004 11:05:00 AM	11/29/2004
0411515-004A	WSS-SB56-001		11/29/2004 3:20:00 PM	11/29/2004
0411515-004B	WSS-SB56-001		11/29/2004 3:20:00 PM	11/29/2004

STAT Analysis Corporation

Date: *December 15, 2004*

CLIENT: Burns & McDonnell
Project: 32088 Willow Street Station- General Iron
Lab Order: 0411515

CASE NARRATIVE

Due to matrix interference, sample WSS-SB50-003 (0411515-003) had VOC surrogate Toluene-d8 out of control for both analysis and reanalysis (82%/83% recovery, QC Limits 85-110%).

Due to matrix interference, sample WSS-SB50-001 (0411515-001) had high SVOC surrogate recovery for 2,4,6-Tribromophenol (135% Recovery, QC Limits 19-122%)

The Laboratory Control Sample (LCS-12058-SVOC) had high SVOC spike recovery for N-Nitrosodi-n-propylamine (108% Recovery, QC Limits 55-100%).

Due to matrix interference, the SVOC MS/MSD prepared from sample WSS-SB50-003 (0411515-003) had the following compounds out of control:
2,4-Dinitrotoluene: 43%/45% Recovery, QC Limits 55-101%
4-Chloro-3-methylphenol: 96%/101% Recovery, QC Limits 62-100%
N-Nitrosodi-n-propylamine: 105%/113% Recovery, QC Limits 55-100%

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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB50-001
Lab Order:	0411515	**Tag Number:**	
Project:	32088 Willow Street Station- General Iron	**Collection Date:**	11/29/2004 10:30:00 AM
Lab ID:	0411515-001A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **11/30/2004**		Analyst: **PS**
Acetone	0.082	0.065		mg/Kg-dry	1	12/4/2004
Benzene	0.13	0.013		mg/Kg-dry	1	12/4/2004
Bromodichloromethane	ND	0.013		mg/Kg-dry	1	12/4/2004
Bromoform	ND	0.013		mg/Kg-dry	1	12/4/2004
Bromomethane	ND	0.026		mg/Kg-dry	1	12/4/2004
2-Butanone	ND	0.026		mg/Kg-dry	1	12/4/2004
Carbon disulfide	ND	0.013		mg/Kg-dry	1	12/4/2004
Carbon tetrachloride	ND	0.013		mg/Kg-dry	1	12/4/2004
Chlorobenzene	ND	0.013		mg/Kg-dry	1	12/4/2004
Chloroethane	ND	0.026		mg/Kg-dry	1	12/4/2004
Chloroform	ND	0.013		mg/Kg-dry	1	12/4/2004
Chloromethane	ND	0.013		mg/Kg-dry	1	12/4/2004
Dibromochloromethane	ND	0.013		mg/Kg-dry	1	12/4/2004
1,1-Dichloroethane	ND	0.013		mg/Kg-dry	1	12/4/2004
1,2-Dichloroethane	ND	0.013		mg/Kg-dry	1	12/4/2004
1,1-Dichloroethene	ND	0.013		mg/Kg-dry	1	12/4/2004
cis-1,2-Dichloroethene	ND	0.013		mg/Kg-dry	1	12/4/2004
trans-1,2-Dichloroethene	ND	0.013		mg/Kg-dry	1	12/4/2004
1,2-Dichloropropane	ND	0.013		mg/Kg-dry	1	12/4/2004
cis-1,3-Dichloropropene	ND	0.013		mg/Kg-dry	1	12/4/2004
trans-1,3-Dichloropropene	ND	0.013		mg/Kg-dry	1	12/4/2004
Ethylbenzene	0.6	0.35		mg/Kg-dry	50	12/4/2004
2-Hexanone	ND	0.026		mg/Kg-dry	1	12/4/2004
4-Methyl-2-pentanone	ND	0.026		mg/Kg-dry	1	12/4/2004
Methylene chloride	ND	0.026		mg/Kg-dry	1	12/4/2004
Methyl tert-butyl ether	ND	0.013		mg/Kg-dry	1	12/4/2004
Styrene	ND	0.013		mg/Kg-dry	1	12/4/2004
1,1,2,2-Tetrachloroethane	ND	0.013		mg/Kg-dry	1	12/4/2004
Tetrachloroethene	ND	0.013		mg/Kg-dry	1	12/4/2004
Toluene	0.016	0.013		mg/Kg-dry	1	12/4/2004
1,1,1-Trichloroethane	ND	0.013		mg/Kg-dry	1	12/4/2004
1,1,2-Trichloroethane	ND	0.013		mg/Kg-dry	1	12/4/2004
Trichloroethene	ND	0.013		mg/Kg-dry	1	12/4/2004
Vinyl chloride	ND	0.013		mg/Kg-dry	1	12/4/2004
Xylenes, Total	2.3	0.7		mg/Kg-dry	50	12/4/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB50-001
Lab Order:	0411515	**Tag Number:**	
Project:	32088 Willow Street Station- General Iron	**Collection Date:**	11/29/2004 10:30:00 AM
Lab ID:	0411515-001B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **11/30/2004**		Analyst: **JF**
TPH (Gasoline)	140	28	*	mg/Kg-dry	1	12/2/2004
TPH (Diesel)	1200	28	*	mg/Kg-dry	1	12/2/2004
TPH (Oil)	1500	28	*	mg/Kg-dry	1	12/2/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/2/2004**		Analyst: **VS**
Acenaphthene	1.1	0.35		mg/Kg-dry	10	12/3/2004
Acenaphthylene	0.57	0.35		mg/Kg-dry	10	12/3/2004
Anthracene	1.4	0.35		mg/Kg-dry	10	12/3/2004
Benz(a)anthracene	2.2	0.35		mg/Kg-dry	10	12/3/2004
Benzo(b)fluoranthene	1.5	0.35		mg/Kg-dry	10	12/3/2004
Benzo(k)fluoranthene	1.5	0.35		mg/Kg-dry	10	12/3/2004
Benzo(g,h,i)perylene	0.83	0.35		mg/Kg-dry	10	12/3/2004
Benzo(a)pyrene	2.3	0.35		mg/Kg-dry	10	12/3/2004
Chrysene	2.1	0.35		mg/Kg-dry	10	12/3/2004
Dibenz(a,h)anthracene	0.22	0.035		mg/Kg-dry	1	12/3/2004
Fluoranthene	2.9	0.35		mg/Kg-dry	10	12/3/2004
Fluorene	0.6	0.35		mg/Kg-dry	10	12/3/2004
Indeno(1,2,3-cd)pyrene	0.75	0.35		mg/Kg-dry	10	12/3/2004
Naphthalene	0.32	0.035		mg/Kg-dry	1	12/3/2004
Phenanthrene	2.3	0.35		mg/Kg-dry	10	12/3/2004
Pyrene	4.2	0.35		mg/Kg-dry	10	12/3/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/2/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.47		mg/Kg-dry	1	12/3/2004
Bis(2-chloroethyl)ether	ND	0.47		mg/Kg-dry	1	12/3/2004
Bis(2-ethylhexyl)phthalate	ND	0.47		mg/Kg-dry	1	12/3/2004
4-Bromophenyl phenyl ether	ND	0.47		mg/Kg-dry	1	12/3/2004
Butyl benzyl phthalate	ND	0.47		mg/Kg-dry	1	12/3/2004
Carbazole	ND	0.47		mg/Kg-dry	1	12/3/2004
4-Chloro-3-methylphenol	ND	0.47		mg/Kg-dry	1	12/3/2004
4-Chloroaniline	ND	0.47		mg/Kg-dry	1	12/3/2004
2-Chloronaphthalene	ND	0.47		mg/Kg-dry	1	12/3/2004
2-Chlorophenol	ND	0.47		mg/Kg-dry	1	12/3/2004
4-Chlorophenyl phenyl ether	ND	0.47		mg/Kg-dry	1	12/3/2004
Dibenzofuran	ND	0.47		mg/Kg-dry	1	12/3/2004
1,2-Dichlorobenzene	ND	0.47		mg/Kg-dry	1	12/3/2004
1,3-Dichlorobenzene	ND	0.47		mg/Kg-dry	1	12/3/2004
1,4-Dichlorobenzene	ND	0.47		mg/Kg-dry	1	12/3/2004
3,3´-Dichlorobenzidine	ND	0.93		mg/Kg-dry	1	12/3/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB50-001
Lab Order:	0411515	**Tag Number:**	
Project:	32088 Willow Street Station- General Iron	**Collection Date:**	11/29/2004 10:30:00 AM
Lab ID:	0411515-001B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/2/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.47		mg/Kg-dry	1	12/3/2004
Diethyl phthalate	ND	0.47		mg/Kg-dry	1	12/3/2004
Dimethyl phthalate	ND	0.47		mg/Kg-dry	1	12/3/2004
Di-n-butyl phthalate	ND	0.47		mg/Kg-dry	1	12/3/2004
2,4-Dimethylphenol	ND	0.47		mg/Kg-dry	1	12/3/2004
4,6-Dinitro-2-methylphenol	ND	2.3		mg/Kg-dry	1	12/3/2004
2,4-Dinitrophenol	ND	2.3		mg/Kg-dry	1	12/3/2004
2,4-Dinitrotoluene	ND	0.24		mg/Kg-dry	1	12/3/2004
2,6-Dinitrotoluene	ND	0.24		mg/Kg-dry	1	12/3/2004
Di-n-octyl phthalate	ND	0.47		mg/Kg-dry	1	12/3/2004
Hexachlorobenzene	ND	0.47		mg/Kg-dry	1	12/3/2004
Hexachlorobutadiene	ND	0.47		mg/Kg-dry	1	12/3/2004
Hexachlorocyclopentadiene	ND	0.47		mg/Kg-dry	1	12/3/2004
Hexachloroethane	ND	0.47		mg/Kg-dry	1	12/3/2004
Isophorone	ND	0.47		mg/Kg-dry	1	12/3/2004
2-Methylnaphthalene	0.95	0.47		mg/Kg-dry	1	12/3/2004
2-Methylphenol	ND	0.47		mg/Kg-dry	1	12/3/2004
4-Methylphenol	ND	0.47		mg/Kg-dry	1	12/3/2004
2-Nitroaniline	ND	2.3		mg/Kg-dry	1	12/3/2004
3-Nitroaniline	ND	2.3		mg/Kg-dry	1	12/3/2004
4-Nitroaniline	ND	2.3		mg/Kg-dry	1	12/3/2004
Nitrobenzene	ND	0.24		mg/Kg-dry	1	12/3/2004
2-Nitrophenol	ND	0.47		mg/Kg-dry	1	12/3/2004
4-Nitrophenol	ND	2.3		mg/Kg-dry	1	12/3/2004
N-Nitrosodi-n-propylamine	ND	0.24		mg/Kg-dry	1	12/3/2004
N-Nitrosodiphenylamine	ND	0.47		mg/Kg-dry	1	12/3/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.47		mg/Kg-dry	1	12/3/2004
Pentachlorophenol	ND	2.3		mg/Kg-dry	1	12/3/2004
Phenol	ND	0.47		mg/Kg-dry	1	12/3/2004
1,2,4-Trichlorobenzene	ND	0.47		mg/Kg-dry	1	12/3/2004
2,4,5-Trichlorophenol	ND	0.93		mg/Kg-dry	1	12/3/2004
2,4,6-Trichlorophenol	ND	0.47		mg/Kg-dry	1	12/3/2004
Percent Moisture	**D2974**			Prep Date: **11/30/2004**		Analyst: **RW**
Percent Moisture	30.56	0.01	*	wt%	1	12/1/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB50-002
Lab Order:	0411515	**Tag Number:**	
Project:	32088 Willow Street Station- General Iron	**Collection Date:**	11/29/2004 10:45:00 AM
Lab ID:	0411515-002A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **11/30/2004**		Analyst: **PS**
Acetone	ND	1.9		mg/Kg-dry	50	12/4/2004
Benzene	2.9	0.75		mg/Kg-dry	100	12/5/2004
Bromodichloromethane	ND	0.38		mg/Kg-dry	50	12/4/2004
Bromoform	ND	0.38		mg/Kg-dry	50	12/4/2004
Bromomethane	ND	0.75		mg/Kg-dry	50	12/4/2004
2-Butanone	ND	0.75		mg/Kg-dry	50	12/4/2004
Carbon disulfide	ND	0.38		mg/Kg-dry	50	12/4/2004
Carbon tetrachloride	ND	0.38		mg/Kg-dry	50	12/4/2004
Chlorobenzene	ND	0.38		mg/Kg-dry	50	12/4/2004
Chloroethane	ND	0.75		mg/Kg-dry	50	12/4/2004
Chloroform	ND	0.38		mg/Kg-dry	50	12/4/2004
Chloromethane	ND	0.38		mg/Kg-dry	50	12/4/2004
Dibromochloromethane	ND	0.38		mg/Kg-dry	50	12/4/2004
1,1-Dichloroethane	ND	0.38		mg/Kg-dry	50	12/4/2004
1,2-Dichloroethane	ND	0.38		mg/Kg-dry	50	12/4/2004
1,1-Dichloroethene	ND	0.38		mg/Kg-dry	50	12/4/2004
cis-1,2-Dichloroethene	ND	0.38		mg/Kg-dry	50	12/4/2004
trans-1,2-Dichloroethene	ND	0.38		mg/Kg-dry	50	12/4/2004
1,2-Dichloropropane	ND	0.38		mg/Kg-dry	50	12/4/2004
cis-1,3-Dichloropropene	ND	0.38		mg/Kg-dry	50	12/4/2004
trans-1,3-Dichloropropene	ND	0.38		mg/Kg-dry	50	12/4/2004
Ethylbenzene	30	0.75		mg/Kg-dry	100	12/5/2004
2-Hexanone	ND	0.75		mg/Kg-dry	50	12/4/2004
4-Methyl-2-pentanone	ND	0.75		mg/Kg-dry	50	12/4/2004
Methylene chloride	ND	0.75		mg/Kg-dry	50	12/4/2004
Methyl tert-butyl ether	ND	0.38		mg/Kg-dry	50	12/4/2004
Styrene	ND	0.38		mg/Kg-dry	50	12/4/2004
1,1,2,2-Tetrachloroethane	ND	0.38		mg/Kg-dry	50	12/4/2004
Tetrachloroethene	ND	0.38		mg/Kg-dry	50	12/4/2004
Toluene	ND	0.38		mg/Kg-dry	50	12/4/2004
1,1,1-Trichloroethane	ND	0.38		mg/Kg-dry	50	12/4/2004
1,1,2-Trichloroethane	ND	0.38		mg/Kg-dry	50	12/4/2004
Trichloroethene	ND	0.38		mg/Kg-dry	50	12/4/2004
Vinyl chloride	ND	0.38		mg/Kg-dry	50	12/4/2004
Xylenes, Total	21	1.5		mg/Kg-dry	100	12/5/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB50-002
Lab Order:	0411515	**Tag Number:**	
Project:	32088 Willow Street Station- General Iron	**Collection Date:**	11/29/2004 10:45:00 AM
Lab ID:	0411515-002B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **11/30/2004**		Analyst: **JF**
TPH (Gasoline)	110	26	*	mg/Kg-dry	1	12/2/2004
TPH (Diesel)	150	26	*	mg/Kg-dry	1	12/2/2004
TPH (Oil)	33	26	*	mg/Kg-dry	1	12/2/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/2/2004**		Analyst: **VS**
Acenaphthene	3	0.35		mg/Kg-dry	10	12/3/2004
Acenaphthylene	0.44	0.35		mg/Kg-dry	10	12/3/2004
Anthracene	2.6	0.35		mg/Kg-dry	10	12/3/2004
Benz(a)anthracene	3.9	3.5		mg/Kg-dry	100	12/5/2004
Benzo(b)fluoranthene	2.4	0.35		mg/Kg-dry	10	12/3/2004
Benzo(k)fluoranthene	3.8	3.5		mg/Kg-dry	100	12/5/2004
Benzo(g,h,i)perylene	0.74	0.35		mg/Kg-dry	10	12/3/2004
Benzo(a)pyrene	4.4	3.5		mg/Kg-dry	100	12/5/2004
Chrysene	3.1	0.35		mg/Kg-dry	10	12/3/2004
Dibenz(a,h)anthracene	0.24	0.035		mg/Kg-dry	1	12/3/2004
Fluoranthene	7.2	3.5		mg/Kg-dry	100	12/5/2004
Fluorene	2.2	0.35		mg/Kg-dry	10	12/3/2004
Indeno(1,2,3-cd)pyrene	0.89	0.35		mg/Kg-dry	10	12/3/2004
Naphthalene	44	3.5		mg/Kg-dry	100	12/5/2004
Phenanthrene	8.7	3.5		mg/Kg-dry	100	12/5/2004
Pyrene	6.4	3.5		mg/Kg-dry	100	12/5/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/2/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.46		mg/Kg-dry	1	12/3/2004
Bis(2-chloroethyl)ether	ND	0.46		mg/Kg-dry	1	12/3/2004
Bis(2-ethylhexyl)phthalate	ND	0.46		mg/Kg-dry	1	12/3/2004
4-Bromophenyl phenyl ether	ND	0.46		mg/Kg-dry	1	12/3/2004
Butyl benzyl phthalate	ND	0.46		mg/Kg-dry	1	12/3/2004
Carbazole	ND	0.46		mg/Kg-dry	1	12/3/2004
4-Chloro-3-methylphenol	ND	0.46		mg/Kg-dry	1	12/3/2004
4-Chloroaniline	ND	0.46		mg/Kg-dry	1	12/3/2004
2-Chloronaphthalene	ND	0.46		mg/Kg-dry	1	12/3/2004
2-Chlorophenol	ND	0.46		mg/Kg-dry	1	12/3/2004
4-Chlorophenyl phenyl ether	ND	0.46		mg/Kg-dry	1	12/3/2004
Dibenzofuran	1.2	0.46		mg/Kg-dry	1	12/3/2004
1,2-Dichlorobenzene	ND	0.46		mg/Kg-dry	1	12/3/2004
1,3-Dichlorobenzene	ND	0.46		mg/Kg-dry	1	12/3/2004
1,4-Dichlorobenzene	ND	0.46		mg/Kg-dry	1	12/3/2004
3,3´-Dichlorobenzidine	ND	0.91		mg/Kg-dry	1	12/3/2004

Qualifiers:
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B - Analyte detected in the associated Method Blank
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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB50-002
Lab Order:	0411515	**Tag Number:**	
Project:	32088 Willow Street Station- General Iron	**Collection Date:**	11/29/2004 10:45:00 AM
Lab ID:	0411515-002B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/2/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.46		mg/Kg-dry	1	12/3/2004
Diethyl phthalate	ND	0.46		mg/Kg-dry	1	12/3/2004
Dimethyl phthalate	ND	0.46		mg/Kg-dry	1	12/3/2004
Di-n-butyl phthalate	ND	0.46		mg/Kg-dry	1	12/3/2004
2,4-Dimethylphenol	ND	0.46		mg/Kg-dry	1	12/3/2004
4,6-Dinitro-2-methylphenol	ND	2.2		mg/Kg-dry	1	12/3/2004
2,4-Dinitrophenol	ND	2.2		mg/Kg-dry	1	12/3/2004
2,4-Dinitrotoluene	ND	0.23		mg/Kg-dry	1	12/3/2004
2,6-Dinitrotoluene	ND	0.23		mg/Kg-dry	1	12/3/2004
Di-n-octyl phthalate	ND	0.46		mg/Kg-dry	1	12/3/2004
Hexachlorobenzene	ND	0.46		mg/Kg-dry	1	12/3/2004
Hexachlorobutadiene	ND	0.46		mg/Kg-dry	1	12/3/2004
Hexachlorocyclopentadiene	ND	0.46		mg/Kg-dry	1	12/3/2004
Hexachloroethane	ND	0.46		mg/Kg-dry	1	12/3/2004
Isophorone	ND	0.46		mg/Kg-dry	1	12/3/2004
2-Methylnaphthalene	7.5	0.46		mg/Kg-dry	1	12/3/2004
2-Methylphenol	ND	0.46		mg/Kg-dry	1	12/3/2004
4-Methylphenol	ND	0.46		mg/Kg-dry	1	12/3/2004
2-Nitroaniline	ND	2.2		mg/Kg-dry	1	12/3/2004
3-Nitroaniline	ND	2.2		mg/Kg-dry	1	12/3/2004
4-Nitroaniline	ND	2.2		mg/Kg-dry	1	12/3/2004
Nitrobenzene	ND	0.23		mg/Kg-dry	1	12/3/2004
2-Nitrophenol	ND	0.46		mg/Kg-dry	1	12/3/2004
4-Nitrophenol	ND	2.2		mg/Kg-dry	1	12/3/2004
N-Nitrosodi-n-propylamine	ND	0.23		mg/Kg-dry	1	12/3/2004
N-Nitrosodiphenylamine	ND	0.46		mg/Kg-dry	1	12/3/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.46		mg/Kg-dry	1	12/3/2004
Pentachlorophenol	ND	2.2		mg/Kg-dry	1	12/3/2004
Phenol	ND	0.46		mg/Kg-dry	1	12/3/2004
1,2,4-Trichlorobenzene	ND	0.46		mg/Kg-dry	1	12/3/2004
2,4,5-Trichlorophenol	ND	0.91		mg/Kg-dry	1	12/3/2004
2,4,6-Trichlorophenol	ND	0.46		mg/Kg-dry	1	12/3/2004
Percent Moisture	**D2974**			Prep Date: **11/30/2004**		Analyst: **RW**
Percent Moisture	28.85	0.01	*	wt%	1	12/1/2004

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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB50-003
Lab Order:	0411515	**Tag Number:**	
Project:	32088 Willow Street Station- General Iron	**Collection Date:**	11/29/2004 11:05:00 AM
Lab ID:	0411515-003A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **11/30/2004**		Analyst: **PS**
Acetone	ND	0.037	UJ	mg/Kg-dry	1	12/4/2004
Benzene	ND	0.0073		mg/Kg-dry	1	12/4/2004
Bromodichloromethane	ND	0.0073		mg/Kg-dry	1	12/4/2004
Bromoform	ND	0.0073		mg/Kg-dry	1	12/4/2004
Bromomethane	ND	0.015		mg/Kg-dry	1	12/4/2004
2-Butanone	ND	0.015		mg/Kg-dry	1	12/4/2004
Carbon disulfide	ND	0.0073		mg/Kg-dry	1	12/4/2004
Carbon tetrachloride	ND	0.0073		mg/Kg-dry	1	12/4/2004
Chlorobenzene	ND	0.0073		mg/Kg-dry	1	12/4/2004
Chloroethane	ND	0.015		mg/Kg-dry	1	12/4/2004
Chloroform	ND	0.0073		mg/Kg-dry	1	12/4/2004
Chloromethane	ND	0.0073		mg/Kg-dry	1	12/4/2004
Dibromochloromethane	ND	0.0073		mg/Kg-dry	1	12/4/2004
1,1-Dichloroethane	ND	0.0073		mg/Kg-dry	1	12/4/2004
1,2-Dichloroethane	ND	0.0073		mg/Kg-dry	1	12/4/2004
1,1-Dichloroethene	ND	0.0073		mg/Kg-dry	1	12/4/2004
cis-1,2-Dichloroethene	ND	0.0073		mg/Kg-dry	1	12/4/2004
trans-1,2-Dichloroethene	ND	0.0073		mg/Kg-dry	1	12/4/2004
1,2-Dichloropropane	ND	0.0073		mg/Kg-dry	1	12/4/2004
cis-1,3-Dichloropropene	ND	0.0073		mg/Kg-dry	1	12/4/2004
trans-1,3-Dichloropropene	ND	0.0073		mg/Kg-dry	1	12/4/2004
Ethylbenzene	0.56	0.35		mg/Kg-dry	50	12/4/2004
2-Hexanone	ND	0.015	UJ	mg/Kg-dry	1	12/4/2004
4-Methyl-2-pentanone	ND	0.015		mg/Kg-dry	1	12/4/2004
Methylene chloride	ND	0.015		mg/Kg-dry	1	12/4/2004
Methyl tert-butyl ether	ND	0.0073		mg/Kg-dry	1	12/4/2004
Styrene	ND	0.0073		mg/Kg-dry	1	12/4/2004
1,1,2,2-Tetrachloroethane	ND	0.0073		mg/Kg-dry	1	12/4/2004
Tetrachloroethene	ND	0.0073		mg/Kg-dry	1	12/4/2004
Toluene	0.018	0.0073	J	mg/Kg-dry	1	12/4/2004
1,1,1-Trichloroethane	ND	0.0073	UJ	mg/Kg-dry	1	12/4/2004
1,1,2-Trichloroethane	ND	0.0073		mg/Kg-dry	1	12/4/2004
Trichloroethene	ND	0.0073		mg/Kg-dry	1	12/4/2004
Vinyl chloride	ND	0.0073		mg/Kg-dry	1	12/4/2004
Xylenes, Total	2.1	0.7	J	mg/Kg-dry	50	12/4/2004

UJ= estimated non-detect value ; poor surrogate recovery. SFA
J= estimated value ; poor surrogate recovery. SFA.

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB50-003
Lab Order:	0411515	**Tag Number:**	
Project:	32088 Willow Street Station- General Iron	**Collection Date:**	11/29/2004 11:05:00 AM
Lab ID:	0411515-003B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **11/30/2004**		Analyst: **JF**
TPH (Gasoline)	ND	26	*	mg/Kg-dry	1	12/2/2004
TPH (Diesel)	31	26	*	mg/Kg-dry	1	12/2/2004
TPH (Oil)	ND	26	*	mg/Kg-dry	1	12/2/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/2/2004**		Analyst: **VS**
Acenaphthene	0.086	0.034		mg/Kg-dry	1	12/3/2004
Acenaphthylene	ND	0.034		mg/Kg-dry	1	12/3/2004
Anthracene	0.18	0.034		mg/Kg-dry	1	12/3/2004
Benz(a)anthracene	0.42	0.34		mg/Kg-dry	10	12/5/2004
Benzo(b)fluoranthene	0.27	0.034		mg/Kg-dry	1	12/3/2004
Benzo(k)fluoranthene	0.38	0.34		mg/Kg-dry	10	12/5/2004
Benzo(g,h,i)perylene	0.077	0.034		mg/Kg-dry	1	12/3/2004
Benzo(a)pyrene	0.46	0.34		mg/Kg-dry	10	12/5/2004
Chrysene	0.42	0.34		mg/Kg-dry	10	12/5/2004
Dibenz(a,h)anthracene	0.037	0.034		mg/Kg-dry	1	12/3/2004
Fluoranthene	0.66	0.34		mg/Kg-dry	10	12/5/2004
Fluorene	0.098	0.034		mg/Kg-dry	1	12/3/2004
Indeno(1,2,3-cd)pyrene	0.098	0.034		mg/Kg-dry	1	12/3/2004
Naphthalene	0.52	0.34		mg/Kg-dry	10	12/5/2004
Phenanthrene	0.46	0.34		mg/Kg-dry	10	12/5/2004
Pyrene	0.55	0.34		mg/Kg-dry	10	12/5/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/2/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.45		mg/Kg-dry	1	12/3/2004
Bis(2-chloroethyl)ether	ND	0.45		mg/Kg-dry	1	12/3/2004
Bis(2-ethylhexyl)phthalate	ND	0.45		mg/Kg-dry	1	12/3/2004
4-Bromophenyl phenyl ether	ND	0.45		mg/Kg-dry	1	12/3/2004
Butyl benzyl phthalate	ND	0.45		mg/Kg-dry	1	12/3/2004
Carbazole	ND	0.45		mg/Kg-dry	1	12/3/2004
4-Chloro-3-methylphenol	ND	0.45		mg/Kg-dry	1	12/3/2004
4-Chloroaniline	ND	0.45		mg/Kg-dry	1	12/3/2004
2-Chloronaphthalene	ND	0.45		mg/Kg-dry	1	12/3/2004
2-Chlorophenol	ND	0.45		mg/Kg-dry	1	12/3/2004
4-Chlorophenyl phenyl ether	ND	0.45		mg/Kg-dry	1	12/3/2004
Dibenzofuran	ND	0.45		mg/Kg-dry	1	12/3/2004
1,2-Dichlorobenzene	ND	0.45		mg/Kg-dry	1	12/3/2004
1,3-Dichlorobenzene	ND	0.45		mg/Kg-dry	1	12/3/2004
1,4-Dichlorobenzene	ND	0.45		mg/Kg-dry	1	12/3/2004
3,3´-Dichlorobenzidine	ND	0.89		mg/Kg-dry	1	12/3/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB50-003
Lab Order:	0411515	**Tag Number:**	
Project:	32088 Willow Street Station- General Iron	**Collection Date:**	11/29/2004 11:05:00 AM
Lab ID:	0411515-003B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/2/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.45		mg/Kg-dry	1	12/3/2004
Diethyl phthalate	ND	0.45		mg/Kg-dry	1	12/3/2004
Dimethyl phthalate	ND	0.45		mg/Kg-dry	1	12/3/2004
Di-n-butyl phthalate	ND	0.45		mg/Kg-dry	1	12/3/2004
2,4-Dimethylphenol	ND	0.45		mg/Kg-dry	1	12/3/2004
4,6-Dinitro-2-methylphenol	ND	2.2		mg/Kg-dry	1	12/3/2004
2,4-Dinitrophenol	ND	2.2		mg/Kg-dry	1	12/3/2004
2,4-Dinitrotoluene	ND	0.23		mg/Kg-dry	1	12/3/2004
2,6-Dinitrotoluene	ND	0.23		mg/Kg-dry	1	12/3/2004
Di-n-octyl phthalate	ND	0.45		mg/Kg-dry	1	12/3/2004
Hexachlorobenzene	ND	0.45		mg/Kg-dry	1	12/3/2004
Hexachlorobutadiene	ND	0.45		mg/Kg-dry	1	12/3/2004
Hexachlorocyclopentadiene	ND	0.45		mg/Kg-dry	1	12/3/2004
Hexachloroethane	ND	0.45		mg/Kg-dry	1	12/3/2004
Isophorone	ND	0.45		mg/Kg-dry	1	12/3/2004
2-Methylnaphthalene	ND	0.45		mg/Kg-dry	1	12/3/2004
2-Methylphenol	ND	0.45		mg/Kg-dry	1	12/3/2004
4-Methylphenol	ND	0.45		mg/Kg-dry	1	12/3/2004
2-Nitroaniline	ND	2.2		mg/Kg-dry	1	12/3/2004
3-Nitroaniline	ND	2.2		mg/Kg-dry	1	12/3/2004
4-Nitroaniline	ND	2.2		mg/Kg-dry	1	12/3/2004
Nitrobenzene	ND	0.23		mg/Kg-dry	1	12/3/2004
2-Nitrophenol	ND	0.45		mg/Kg-dry	1	12/3/2004
4-Nitrophenol	ND	2.2		mg/Kg-dry	1	12/3/2004
N-Nitrosodi-n-propylamine	ND	0.23		mg/Kg-dry	1	12/3/2004
N-Nitrosodiphenylamine	ND	0.45		mg/Kg-dry	1	12/3/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.45		mg/Kg-dry	1	12/3/2004
Pentachlorophenol	ND	2.2		mg/Kg-dry	1	12/3/2004
Phenol	ND	0.45		mg/Kg-dry	1	12/3/2004
1,2,4-Trichlorobenzene	ND	0.45		mg/Kg-dry	1	12/3/2004
2,4,5-Trichlorophenol	ND	0.89		mg/Kg-dry	1	12/3/2004
2,4,6-Trichlorophenol	ND	0.45		mg/Kg-dry	1	12/3/2004
Percent Moisture	**D2974**			Prep Date: **11/30/2004**		Analyst: **RW**
Percent Moisture	27.86	0.01	*	wt%	1	12/1/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB56-001
Lab Order:	0411515	**Tag Number:**	
Project:	32088 Willow Street Station- General Iron	**Collection Date:**	11/29/2004 3:20:00 PM
Lab ID:	0411515-004A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **11/30/2004**		Analyst: **PS**
Acetone	ND	0.028		mg/Kg-dry	1	12/4/2004
Benzene	ND	0.0056		mg/Kg-dry	1	12/4/2004
Bromodichloromethane	ND	0.0056		mg/Kg-dry	1	12/4/2004
Bromoform	ND	0.0056		mg/Kg-dry	1	12/4/2004
Bromomethane	ND	0.011		mg/Kg-dry	1	12/4/2004
2-Butanone	ND	0.011		mg/Kg-dry	1	12/4/2004
Carbon disulfide	ND	0.0056		mg/Kg-dry	1	12/4/2004
Carbon tetrachloride	ND	0.0056		mg/Kg-dry	1	12/4/2004
Chlorobenzene	ND	0.0056		mg/Kg-dry	1	12/4/2004
Chloroethane	ND	0.011		mg/Kg-dry	1	12/4/2004
Chloroform	ND	0.0056		mg/Kg-dry	1	12/4/2004
Chloromethane	ND	0.0056		mg/Kg-dry	1	12/4/2004
Dibromochloromethane	ND	0.0056		mg/Kg-dry	1	12/4/2004
1,1-Dichloroethane	ND	0.0056		mg/Kg-dry	1	12/4/2004
1,2-Dichloroethane	ND	0.0056		mg/Kg-dry	1	12/4/2004
1,1-Dichloroethene	ND	0.0056		mg/Kg-dry	1	12/4/2004
cis-1,2-Dichloroethene	ND	0.0056		mg/Kg-dry	1	12/4/2004
trans-1,2-Dichloroethene	ND	0.0056		mg/Kg-dry	1	12/4/2004
1,2-Dichloropropane	ND	0.0056		mg/Kg-dry	1	12/4/2004
cis-1,3-Dichloropropene	ND	0.0056		mg/Kg-dry	1	12/4/2004
trans-1,3-Dichloropropene	ND	0.0056		mg/Kg-dry	1	12/4/2004
Ethylbenzene	ND	0.0056		mg/Kg-dry	1	12/4/2004
2-Hexanone	ND	0.011		mg/Kg-dry	1	12/4/2004
4-Methyl-2-pentanone	ND	0.011		mg/Kg-dry	1	12/4/2004
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/4/2004
Methyl tert-butyl ether	ND	0.0056		mg/Kg-dry	1	12/4/2004
Styrene	ND	0.0056		mg/Kg-dry	1	12/4/2004
1,1,2,2-Tetrachloroethane	ND	0.0056		mg/Kg-dry	1	12/4/2004
Tetrachloroethene	ND	0.0056		mg/Kg-dry	1	12/4/2004
Toluene	ND	0.0056		mg/Kg-dry	1	12/4/2004
1,1,1-Trichloroethane	ND	0.0056		mg/Kg-dry	1	12/4/2004
1,1,2-Trichloroethane	ND	0.0056		mg/Kg-dry	1	12/4/2004
Trichloroethene	ND	0.0056		mg/Kg-dry	1	12/4/2004
Vinyl chloride	ND	0.0056		mg/Kg-dry	1	12/4/2004
Xylenes, Total	ND	0.011		mg/Kg-dry	1	12/4/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB56-001
Lab Order:	0411515	**Tag Number:**	
Project:	32088 Willow Street Station- General Iron	**Collection Date:**	11/29/2004 3:20:00 PM
Lab ID:	0411515-004B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **11/30/2004**		Analyst: **JF**
TPH (Gasoline)	ND	23	*	mg/Kg-dry	1	12/2/2004
TPH (Diesel)	ND	23	*	mg/Kg-dry	1	12/2/2004
TPH (Oil)	ND	23	*	mg/Kg-dry	1	12/2/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/2/2004**		Analyst: **VS**
Acenaphthene	ND	0.031		mg/Kg-dry	1	12/3/2004
Acenaphthylene	ND	0.031		mg/Kg-dry	1	12/3/2004
Anthracene	ND	0.031		mg/Kg-dry	1	12/3/2004
Benz(a)anthracene	ND	0.031		mg/Kg-dry	1	12/3/2004
Benzo(b)fluoranthene	ND	0.031		mg/Kg-dry	1	12/3/2004
Benzo(k)fluoranthene	ND	0.031		mg/Kg-dry	1	12/3/2004
Benzo(g,h,i)perylene	ND	0.031		mg/Kg-dry	1	12/3/2004
Benzo(a)pyrene	ND	0.031		mg/Kg-dry	1	12/3/2004
Chrysene	ND	0.031		mg/Kg-dry	1	12/3/2004
Dibenz(a,h)anthracene	ND	0.031		mg/Kg-dry	1	12/3/2004
Fluoranthene	ND	0.031		mg/Kg-dry	1	12/3/2004
Fluorene	ND	0.031		mg/Kg-dry	1	12/3/2004
Indeno(1,2,3-cd)pyrene	ND	0.031		mg/Kg-dry	1	12/3/2004
Naphthalene	ND	0.031		mg/Kg-dry	1	12/3/2004
Phenanthrene	0.037	0.031		mg/Kg-dry	1	12/3/2004
Pyrene	ND	0.031		mg/Kg-dry	1	12/3/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/2/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.4		mg/Kg-dry	1	12/3/2004
Bis(2-chloroethyl)ether	ND	0.4		mg/Kg-dry	1	12/3/2004
Bis(2-ethylhexyl)phthalate	ND	0.4		mg/Kg-dry	1	12/3/2004
4-Bromophenyl phenyl ether	ND	0.4		mg/Kg-dry	1	12/3/2004
Butyl benzyl phthalate	ND	0.4		mg/Kg-dry	1	12/3/2004
Carbazole	ND	0.4		mg/Kg-dry	1	12/3/2004
4-Chloro-3-methylphenol	ND	0.4		mg/Kg-dry	1	12/3/2004
4-Chloroaniline	ND	0.4		mg/Kg-dry	1	12/3/2004
2-Chloronaphthalene	ND	0.4		mg/Kg-dry	1	12/3/2004
2-Chlorophenol	ND	0.4		mg/Kg-dry	1	12/3/2004
4-Chlorophenyl phenyl ether	ND	0.4		mg/Kg-dry	1	12/3/2004
Dibenzofuran	ND	0.4		mg/Kg-dry	1	12/3/2004
1,2-Dichlorobenzene	ND	0.4		mg/Kg-dry	1	12/3/2004
1,3-Dichlorobenzene	ND	0.4		mg/Kg-dry	1	12/3/2004
1,4-Dichlorobenzene	ND	0.4		mg/Kg-dry	1	12/3/2004
3,3´-Dichlorobenzidine	ND	0.81		mg/Kg-dry	1	12/3/2004

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2201 West Campbell Park Drive Chicago, IL 60612-3547
Tel: (312) 563-0371 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB56-001
Lab Order:	0411515	**Tag Number:**	
Project:	32088 Willow Street Station- General Iron	**Collection Date:**	11/29/2004 3:20:00 PM
Lab ID:	0411515-004B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/2/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.4		mg/Kg-dry	1	12/3/2004
Diethyl phthalate	ND	0.4		mg/Kg-dry	1	12/3/2004
Dimethyl phthalate	ND	0.4		mg/Kg-dry	1	12/3/2004
Di-n-butyl phthalate	ND	0.4		mg/Kg-dry	1	12/3/2004
2,4-Dimethylphenol	ND	0.4		mg/Kg-dry	1	12/3/2004
4,6-Dinitro-2-methylphenol	ND	2		mg/Kg-dry	1	12/3/2004
2,4-Dinitrophenol	ND	2		mg/Kg-dry	1	12/3/2004
2,4-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/3/2004
2,6-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/3/2004
Di-n-octyl phthalate	ND	0.4		mg/Kg-dry	1	12/3/2004
Hexachlorobenzene	ND	0.4		mg/Kg-dry	1	12/3/2004
Hexachlorobutadiene	ND	0.4		mg/Kg-dry	1	12/3/2004
Hexachlorocyclopentadiene	ND	0.4		mg/Kg-dry	1	12/3/2004
Hexachloroethane	ND	0.4		mg/Kg-dry	1	12/3/2004
Isophorone	ND	0.4		mg/Kg-dry	1	12/3/2004
2-Methylnaphthalene	ND	0.4		mg/Kg-dry	1	12/3/2004
2-Methylphenol	ND	0.4		mg/Kg-dry	1	12/3/2004
4-Methylphenol	ND	0.4		mg/Kg-dry	1	12/3/2004
2-Nitroaniline	ND	2		mg/Kg-dry	1	12/3/2004
3-Nitroaniline	ND	2		mg/Kg-dry	1	12/3/2004
4-Nitroaniline	ND	2		mg/Kg-dry	1	12/3/2004
Nitrobenzene	ND	0.21		mg/Kg-dry	1	12/3/2004
2-Nitrophenol	ND	0.4		mg/Kg-dry	1	12/3/2004
4-Nitrophenol	ND	2		mg/Kg-dry	1	12/3/2004
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	12/3/2004
N-Nitrosodiphenylamine	ND	0.4		mg/Kg-dry	1	12/3/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.4		mg/Kg-dry	1	12/3/2004
Pentachlorophenol	ND	2		mg/Kg-dry	1	12/3/2004
Phenol	ND	0.4		mg/Kg-dry	1	12/3/2004
1,2,4-Trichlorobenzene	ND	0.4		mg/Kg-dry	1	12/3/2004
2,4,5-Trichlorophenol	ND	0.81		mg/Kg-dry	1	12/3/2004
2,4,6-Trichlorophenol	ND	0.4		mg/Kg-dry	1	12/3/2004
Percent Moisture	**D2974**			Prep Date: **11/30/2004**		Analyst: **RW**
Percent Moisture	19.19	0.01	*	wt%	1	12/1/2004

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

Request for Chemical Analysis and Chain of Custody Record

Burns & McDonnell SINCE 1898

Burns & McDonnell Engineering
2601 W. 22nd St
Oak Brook, Illinois 60523
Phone: (630) 990-0300 Fax: (630) 990-0301

Attention: Diane Saftic

Laboratory: STAT
Address: 2201 West Campbell Park
City/State/Zip: Chicago, IL 60612
Telephone: (312) 563-0371

Document Control No: WSS-001-2004
Lab. Reference No. or Episode No.: 0411515

Project Number: 32088
Site Name: Willow Street Station - General Iron

Sample Number: Group or SWMU Name	Sample Number: Sample Point	Sample Number: Sample Designator	Sample Event: Round	Sample Event: Year	Sample Depth (in feet): From	Sample Depth (in feet): To	Sample Collected: Date	Sample Collected: Time	Sample Type: Matrix: Liquid	Solid	Gas	Number of Containers	Parameter/Method Code: TCL VOCs (8240B)	TCL SVOCs (8270C SIM)	TPH (8015)	Remarks
WSS -	SB50 -	001	1	2004	10	12	11/29/04	1030		X		4	X	X	X	PID = 136.5 ppm 001
WSS -	SB50 -	002	1	2004	14	16	11/29/04	1045		X		4	X	X	X	PID = 930 ppm 002
WSS -	SB50 -	003	1	2004	20	22	11/29/04	1105		X		4	X	X	X	PID = 0.0 ppm 003
WSS -	SB50 -	001	1	2004	18	20	11/29/04	1520		X		4	X	X	X	PID = 0.0 ppm 004
TB	TB01		—	—	—	—	—	—	X			1	X			TLH

ALH 11-29-04

Sampler (signature): Amy Hanrahan
Relinquished By (signature): 1. Amy Hanrahan
Relinquished By (signature): 2.

Sampler (signature): Kathi Wotal
Date/Time: 11/29/04 1600
Received By (signature):
Date/Time: 11-29-04 4:43
Received By (signature):

Custody Seal Number: WSS-001-2004-001, WSS-001-2004-002

Date/Time: 11-29-04 4:00
Date/Time: 11/29/04 1603

Special Instructions: Tier 1 Screening levels
Standard TAT - 1 cooler

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 5

Laboratory Comments:

061301 Form WCD-KC1-CHI

STAT Analysis Corporation

Sample Receipt Checklist

Client Name B&M

Date and Time Received: 11/29/2004

Work Order Numbe 0411515

Received by: JC

Checklist completed by: Jean Cant 11/29/04 (Signature / Date)

Reviewed by: NV (Initials) 12/6/04 (Date)

Matrix

Carrier name STAT Analysis

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 5 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples properly preserved/ pH checked?	Yes ☐	No ☐	

Adjusted? Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted Date contacted: Person contacted

Contacted by: Regarding

Comments: SAMPLE W TB01 NOT PRESENT IN COOLER

Corrective Action

STAT Analysis Corporation

Date: 15-Dec-04

CLIENT: Burns & McDonnell
Work Order: 0411515
Project: 32088 Willow Street Station- General Iron
Test No: SW5035/8260B **Matrix:** S

QC SUMMARY REPORT
SURROGATE RECOVERIES

Sample ID	BR4FBZ	BZMED8	DBFM	DCA12D4				
VBLK120404-2	108	101	98.4	113				
VLCS120404-2	103	100	101	105				
VLCSD120404-2	100	102	100	104				
0411515-001A:50	103	100	101	97.0				
0411515-002A:50	95.8	101	101	98.9				
0411515-003A:50	101	101	105	103				
0411515-004A	105	98.8	101	109				
0411515-003A	70.9	82.4 *	100	116				
0411515-001A	84.1	92.8	100	97.3				
VBLK120504-2	109	97.1	103	108				
VLCS120504-2	102	99.9	102	97.9				
VLCSD120504-2	102	98.5	103	104				
0411515-002A:100	102	99.1	105	103				
0411515-003AR	77.1	83.4 *	100	105				

Acronym		Surrogate	QC Limits
BR4FBZ	=	4-Bromofluorobenzene	63-110
BZMED8	=	Toluene-d8	85-110
DBFM	=	Dibromofluoromethane	83-119
DCA12D4	=	1,2-Dichloroethane-d4	84-129

*** Surrogate recovery outside acceptance limits**

1

STAT Analysis Corporation

Date: 15-Dec-04

CLIENT: Burns & McDonnell
Work Order: 0411515
Project: 32088 Willow Street Station- General Iron
Test No: SW8270C **Matrix:** S

QC SUMMARY REPORT
SURROGATE RECOVERIES

Sample ID	CLPH2D4	DCBZ12D4	NO2BZD5	PH246BR	PH2F	PHD5	PHEN2F	PHEND14
MB-12058-SVOC	67.4	61.8	78.6	84.8	67.8	79.8	73.1	87.2
0411515-004B	71.6	69.4	80.6	72.1	72.5	80.9	81.3	56.7
0411515-003B	66.2	62.0	77.2	73.1	64.3	76.8	79.1	57.2
0411515-003BMS	72.0	68.8	88.5	82.3	72.4	81.9	84.1	60.0
0411515-003BMSD	78.1	76.4	96.9	88.3	79.1	89.7	88.9	62.3
0411515-001B	96.1	90.4	113	135 *	83.2	110	111	90.8
0411515-002B	77.4	70.9	91.4	85.2	73.4	87.8	104	54.9
LCS-12058-SVOC	72.5	65.5	86.2	90.5	71.2	86.6	77.9	123

Acronym		Surrogate	QC Limits
CLPH2D4	=	2-Chlorophenol-d4	20-130
DCBZ12D4	=	1,2-Dichlorobenzene-d4	20-130
NO2BZD5	=	Nitrobenzene-d5	23-120
PH246BR	=	2,4,6-Tribromophenol	19-122
PH2F	=	2-Fluorophenol	25-121
PHD5	=	Phenol-d5	24-113
PHEN2F	=	2-Fluorobiphenyl	30-115
PHEND14	=	4-Terphenyl-d14	18-137

*** Surrogate recovery outside acceptance limits**

1

Prep Start Date: **12/2/2004 12:17:21**
Prep End Date: **12/2/2004 7:18:49 P**

Prep Batch **12058** Prep Code: **3550_SVOC** Technician: **JT**

Prep Factor Units: **mL / Kg**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
0411515-001B	Soil		0.03056	0	0	1	32.723	12/2/2004	12/2/2004
0411515-002B	Soil		0.03052	0	0	1	32.765	12/2/2004	12/2/2004
0411515-003B	Soil		0.03072	0	0	1	32.552	12/2/2004	12/2/2004
0411515-003BMS	Soil		0.03079	0	0	1	32.478	12/2/2004	12/2/2004
0411515-003BMSD	Soil		0.0308	0	0	1	32.468	12/2/2004	12/2/2004
0411515-004B	Soil		0.03031	0	0	1	32.992	12/2/2004	12/2/2004
0412026-001A	Soil		0.03064	0	0	1	32.637	12/2/2004	12/2/2004
0412026-002A	Soil		0.03022	0	0	1	33.091	12/2/2004	12/2/2004
0412026-003A	Soil		0.03021	0	0	1	33.102	12/2/2004	12/2/2004
0412026-004A	Soil		0.03019	0	0	1	33.124	12/2/2004	12/2/2004
0412026-005A	Soil		0.03034	0	0	1	32.960	12/2/2004	12/2/2004
0412026-006A	Soil		0.03072	0	0	1	32.552	12/2/2004	12/2/2004
0412026-007A	Soil		0.02486	0	0	1	40.225	12/2/2004	12/2/2004
0412026-008A	Soil		0.03079	0	0	1	32.478	12/2/2004	12/2/2004
0412049-001A	Soil		0.03029	0	0	1	33.014	12/2/2004	12/2/2004
0412049-002A	Soil		0.03035	0	0	1	32.949	12/2/2004	12/2/2004
0412049-003A	Soil		0.03047	0	0	1	32.819	12/2/2004	12/2/2004
LCS-12058-SVOC			0.03	0	0	1	33.333	12/2/2004	12/2/2004
MB-12058-SVOC			0.03	0	0	1	33.333	12/2/2004	12/2/2004

STAT Analysis Corporation

Date: 15-Dec-04

CLIENT: Burns & McDonnell
Work Order: 0411515
Project: 32088 Willow Street Station- General Iron
Test No: SW8270C-SIM **Matrix:** S

QC SUMMARY REPORT
SURROGATE RECOVERIES

Sample ID	DCBZ12D4	NO2BZD5	PHEN2F	PHEND14				
MB-12057-PNA	64.1	71.1	75.6	91.0				
LCS-12057-PNA	56.1	66.9	66.5	88.8				
0411515-003B	56.4	74.6	56.6	60.7				
0411515-004B	67.2	84.6	61.1	64.2				
0411515-001B	55.5	69.5	53.3	72.5				
0411515-002B	61.7	81.2	78.5	64.2				
0412026-003AMS	72.9	95.4	80.2	85.2				
0412026-003AMSD	66.5	87.0	76.8	83.8				

Acronym		Surrogate	QC Limits
DCBZ12D4	=	1,2-Dichlorobenzene-d4	20-130
NO2BZD5	=	Nitrobenzene-d5	23-120
PHEN2F	=	2-Fluorobiphenyl	30-115
PHEND14	=	4-Terphenyl-d14	18-137

*** Surrogate recovery outside acceptance limits**

1

Prep Start Date: **12/2/2004 12:15:08**
Prep End Date: **12/3/2004 12:27:48**

Prep Batch **12057** Prep Code: **3550_PNA** Technician: **JT**

Prep Factor Units: **mL / Kg**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
0411515-001B	Soil		0.03056	0	0	1	32.723	12/2/2004	12/2/2004
0411515-002B	Soil		0.03055	0	0	1	32.733	12/2/2004	12/2/2004
0411515-003B	Soil		0.03072	0	0	1	32.552	12/2/2004	12/2/2004
0411515-004B	Soil		0.03031	0	0	1	32.992	12/2/2004	12/2/2004
0412026-001A	Soil		0.03064	0	0	1	32.637	12/2/2004	12/2/2004
0412026-002A	Soil		0.03022	0	0	1	33.091	12/2/2004	12/2/2004
0412026-003A	Soil		0.03021	0	0	1	33.102	12/2/2004	12/2/2004
0412026-003AMS	Soil		0.03012	0	0	1	33.201	12/2/2004	12/2/2004
0412026-003AMSD	Soil		0.03046	0	0	1	32.830	12/2/2004	12/2/2004
0412026-004A	Soil		0.03019	0	0	1	33.124	12/2/2004	12/2/2004
0412026-005A	Soil		0.03034	0	0	1	32.960	12/2/2004	12/2/2004
0412026-006A	Soil		0.03072	0	0	1	32.552	12/2/2004	12/2/2004
0412026-007A	Soil		0.02486	0	0	1	40.225	12/2/2004	12/2/2004
0412026-008A	Soil		0.03079	0	0	1	32.478	12/2/2004	12/2/2004
0412049-001A	Soil		0.03029	0	0	1	33.014	12/2/2004	12/2/2004
0412049-002A	Soil		0.03035	0	0	1	32.949	12/2/2004	12/2/2004
0412049-003A	Soil		0.03047	0	0	1	32.819	12/2/2004	12/2/2004
0412057-001B	Soil		0.03059	0	0	1	32.690	12/2/2004	12/2/2004
0412062-001A	Soil		0.03028	0	0	1	33.025	12/2/2004	12/3/2004
0412062-002A	Soil		0.03035	0	0	1	32.949	12/2/2004	12/3/2004
0412062-003A	Soil		0.03021	0	0	1	33.102	12/2/2004	12/3/2004
LCS-12057-PNA			0.03	0	0	1	33.333	12/2/2004	12/2/2004
MB-12057-PNA			0.03	0	0	1	33.333	12/2/2004	12/2/2004

Prep Start Date: **11/29/2004 9:00:27**
Prep End Date: **11/30/2004 3:38:07**

Prep Batch **11997** Prep Code: **3580_TPH** Technician: **CDC**

Prep Factor Units: **mL / Kg**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
0411434-001B	Soil		0.0051	0	0	5	980.392	11/29/2004	11/29/2004
0411434-002B	Soil		0.00521	0	0	5	959.693	11/29/2004	11/29/2004
0411491-001A	Soil		0.00524	0	0	5	954.198	11/29/2004	11/29/2004
0411491-002A	Soil		0.00517	0	0	5	967.118	11/29/2004	11/29/2004
0411491-003A	Soil		0.00522	0	0	5	957.854	11/29/2004	11/29/2004
0411491-004A	Soil		0.00529	0	0	5	945.180	11/29/2004	11/29/2004
0411491-005A	Soil		0.00515	0	0	5	970.874	11/29/2004	11/29/2004
0411491-006A	Soil		0.00528	0	0	5	946.970	11/29/2004	11/29/2004
0411491-007A	Soil		0.00532	0	0	5	939.850	11/29/2004	11/29/2004
0411491-008A	Soil		0.00536	0	0	5	932.836	11/29/2004	11/29/2004
0411491-009A	Soil		0.00517	0	0	5	967.118	11/29/2004	11/29/2004
0411491-009AMS	Soil		0.00533	0	0	5	938.086	11/29/2004	11/29/2004
0411491-009AMSD	Soil		0.00526	0	0	5	950.570	11/29/2004	11/29/2004
0411491-010A	Soil		0.00518	0	0	5	965.251	11/29/2004	11/29/2004
0411491-014A	Soil		0.00519	0	0	5	963.391	11/29/2004	11/29/2004
0411491-015A	Soil		0.00537	0	0	5	931.099	11/29/2004	11/29/2004
0411491-016A	Soil		0.00532	0	0	5	939.850	11/29/2004	11/29/2004
0411515-001B	Soil		0.00518	0	0	5	965.251	11/30/2004	11/30/2004
0411515-002B	Soil		0.00534	0	0	5	936.330	11/30/2004	11/30/2004
0411515-003B	Soil		0.00531	0	0	5	941.620	11/30/2004	11/30/2004
0411515-004B	Soil		0.00536	0	0	5	932.836	11/30/2004	11/30/2004
LCS-11997-TPH			0.005	0	0	5	1000.000	11/29/2004	11/29/2004
MB-11997-TPH			0.005	0	0	5	1000.000	11/29/2004	11/29/2004

CLIENT: Burns & McDonnell
Work Order: 0411515
Project: 32088 Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 11997

Sample ID	**MB-11997-TPH**	SampType:	**MBLK**	TestCode:	**TPH**	Units:	**mg/Kg**	Prep Date:	**11/29/2004**	Run ID:	**GC-FID_041129A**
Client ID:	**ZZZZZ**	Batch ID:	**11997**	TestNo:	**SW8015M**			Analysis Date:	**11/29/2004**	SeqNo:	**315883**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	ND	20									*
TPH (Diesel)	ND	20									*
TPH (Oil)	ND	20									*

Sample ID	**LCS-11997-TPH**	SampType:	**LCS**	TestCode:	**TPH**	Units:	**mg/Kg**	Prep Date:	**11/29/2004**	Run ID:	**GC-FID_041129A**
Client ID:	**ZZZZZ**	Batch ID:	**11997**	TestNo:	**SW8015M**			Analysis Date:	**11/29/2004**	SeqNo:	**315884**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	162.9	20	200	0	81.5	30	150	0	0		*
TPH (Diesel)	161.9	20	200	0	80.9	30	150	0	0		*
TPH (Oil)	185.1	20	200	0	92.6	30	150	0	0		*

Sample ID	**0411491-009AMS**	SampType:	**MS**	TestCode:	**TPH**	Units:	**mg/Kg-dry**	Prep Date:	**11/29/2004**	Run ID:	**GC-FID_041129A**
Client ID:	**ZZZZZ**	Batch ID:	**11997**	TestNo:	**SW8015M**			Analysis Date:	**11/30/2004**	SeqNo:	**315896**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	239.8	23	234.4	0	102	30	150	0	0		*
TPH (Diesel)	240.8	23	234.4	1.24	102	30	150	0	0		*
TPH (Oil)	226.5	23	234.4	9.492	92.6	30	150	0	0		*

Sample ID	**0411491-009AMSD**	SampType:	**MSD**	TestCode:	**TPH**	Units:	**mg/Kg-dry**	Prep Date:	**11/29/2004**	Run ID:	**GC-FID_041129A**
Client ID:	**ZZZZZ**	Batch ID:	**11997**	TestNo:	**SW8015M**			Analysis Date:	**11/30/2004**	SeqNo:	**315897**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	231.5	24	237.6	0	97.5	30	150	239.8	3.49	25	*
TPH (Diesel)	249.5	24	237.6	1.24	105	30	150	240.8	3.54	25	*
TPH (Oil)	233.5	24	237.6	9.492	94.3	30	150	226.5	3.06	25	*

Qualifiers:
ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0411515
Project: 32088 Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12057

Sample ID **MB-12057-PNA** SampType: **MBLK** TestCode: **PNA_SOIL** Units: **mg/Kg** Prep Date: **12/2/2004** Run ID: **SVOC-3_041202A**
Client ID: **ZZZZZ** Batch ID: **12057** TestNo: **SW8270C-SI** Analysis Date: **12/2/2004** SeqNo: **317265**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.025									
Acenaphthylene	ND	0.025									
Anthracene	ND	0.025									
Benz(a)anthracene	ND	0.025									
Benzo(a)pyrene	ND	0.025									
Benzo(b)fluoranthene	ND	0.025									
Benzo(g,h,i)perylene	ND	0.025									
Benzo(k)fluoranthene	ND	0.025									
Chrysene	ND	0.025									
Dibenz(a,h)anthracene	ND	0.025									
Fluoranthene	ND	0.025									
Fluorene	ND	0.025									
Indeno(1,2,3-cd)pyrene	ND	0.025									
Naphthalene	0.002	0.025									J
Phenanthrene	ND	0.025									
Pyrene	ND	0.025									

Sample ID **LCS-12057-PNA** SampType: **LCS** TestCode: **PNA_SOIL** Units: **mg/Kg** Prep Date: **12/2/2004** Run ID: **SVOC-3_041202A**
Client ID: **ZZZZZ** Batch ID: **12057** TestNo: **SW8270C-SI** Analysis Date: **12/2/2004** SeqNo: **317266**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.104	0.025	0.167	0	62.3	30	130	0	0		
Acenaphthylene	0.1063	0.025	0.167	0	63.7	30	130	0	0		
Anthracene	0.1143	0.025	0.167	0	68.5	30	130	0	0		
Benz(a)anthracene	0.1353	0.025	0.167	0	81	30	130	0	0		
Benzo(a)pyrene	0.143	0.025	0.167	0	85.6	30	130	0	0		
Benzo(b)fluoranthene	0.16	0.025	0.167	0	95.8	30	130	0	0		
Benzo(g,h,i)perylene	0.1407	0.025	0.167	0	84.2	30	130	0	0		
Benzo(k)fluoranthene	0.13	0.025	0.167	0	77.8	30	130	0	0		
Chrysene	0.142	0.025	0.167	0	85	30	130	0	0		
Dibenz(a,h)anthracene	0.1517	0.025	0.167	0	90.8	30	130	0	0		

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CLIENT: Burns & McDonnell
Work Order: 0411515
Project: 32088 Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12057

Sample ID	LCS-12057-PNA	SampType:	LCS	TestCode:	PNA_SOIL	Units:	mg/Kg	Prep Date:	12/2/2004	Run ID:	SVOC-3_041202A
Client ID:	ZZZZZ	Batch ID:	12057	TestNo:	SW8270C-SI			Analysis Date:	12/2/2004	SeqNo:	317266

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	0.1313	0.025	0.167	0	78.6	30	130	0	0		
Fluorene	0.111	0.025	0.167	0	66.5	30	130	0	0		
Indeno(1,2,3-cd)pyrene	0.147	0.025	0.167	0	88	30	130	0	0		
Naphthalene	0.093	0.025	0.167	0.002	54.5	30	130	0	0		
Phenanthrene	0.1063	0.025	0.167	0	63.7	30	130	0	0		
Pyrene	0.1257	0.025	0.167	0	75.2	30	130	0	0		

Sample ID	0412026-003AMS	SampType:	MS	TestCode:	PNA_SOIL	Units:	mg/Kg-dry	Prep Date:	12/2/2004	Run ID:	SVOC-4_041203A
Client ID:	ZZZZZ	Batch ID:	12057	TestNo:	SW8270C-SI			Analysis Date:	12/3/2004	SeqNo:	317829

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.2812	0.032	0.2109	0.1427	65.7	30	130	0	0		
Acenaphthylene	0.2261	0.032	0.2109	0	107	30	130	0	0		
Anthracene	0.6857	0.032	0.2109	0.4533	110	30	130	0	0		E
Benz(a)anthracene	1.738	0.032	0.2109	0.9863	356	30	130	0	0		SE
Benzo(a)pyrene	1.338	0.032	0.2109	0.8688	222	30	130	0	0		SE
Benzo(b)fluoranthene	1.441	0.032	0.2109	0.8478	281	30	130	0	0		SE
Benzo(g,h,i)perylene	0.4007	0.032	0.2109	0.3861	6.93	30	130	0	0		S
Benzo(k)fluoranthene	1.075	0.032	0.2109	0.617	217	30	130	0	0		SE
Chrysene	1.826	0.032	0.2109	0.9779	402	30	130	0	0		SE
Dibenz(a,h)anthracene	0.2277	0.032	0.2109	0.1763	24.4	30	130	0	0		S
Fluoranthene	1.965	0.032	0.2109	1.96	2.38	30	130	0	0		SE
Fluorene	0.4167	0.032	0.2109	0.256	76.2	30	130	0	0		
Indeno(1,2,3-cd)pyrene	0.4681	0.032	0.2109	0.3735	44.8	30	130	0	0		E
Naphthalene	0.2833	0.032	0.2109	0.1763	50.7	30	130	0	0		
Phenanthrene	1.445	0.032	0.2109	1.083	172	30	130	0	0		SE
Pyrene	1.731	0.032	0.2109	1.528	96.4	30	130	0	0		E

Qualifiers:
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CLIENT: Burns & McDonnell
Work Order: 0411515
Project: 32088 Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12057

Sample ID	0412026-003AMSD	SampType:	MSD	TestCode:	PNA_SOIL	Units:	mg/Kg-dry	Prep Date:	12/2/2004	Run ID:	SVOC-4_041203A
Client ID:	ZZZZZ	Batch ID:	12057	TestNo:	SW8270C-SI			Analysis Date:	12/3/2004	SeqNo:	317830

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.2839	0.031	0.2085	0.1427	67.7	30	130	0.2812	0.952	50	
Acenaphthylene	0.1977	0.031	0.2085	0	94.8	30	130	0.2261	13.4	50	
Anthracene	0.5053	0.031	0.2085	0.4533	25	30	130	0.6857	30.3	50	SE
Benz(a)anthracene	0.9903	0.031	0.2085	0.9863	1.91	30	130	1.738	54.8	50	SRE
Benzo(a)pyrene	0.6818	0.031	0.2085	0.8688	-89.6	30	130	1.338	65.0	50	SRE
Benzo(b)fluoranthene	0.676	0.031	0.2085	0.8478	-82.4	30	130	1.441	72.3	50	SRE
Benzo(g,h,i)perylene	0.1915	0.031	0.2085	0.3861	-93.3	30	130	0.4007	70.7	50	SR
Benzo(k)fluoranthene	0.6377	0.031	0.2085	0.617	9.95	30	130	1.075	51.1	50	SRE
Chrysene	1.042	0.031	0.2085	0.9779	30.7	30	130	1.826	54.7	50	RE
Dibenz(a,h)anthracene	0.1761	0.031	0.2085	0.1763	-0.0949	30	130	0.2277	25.6	50	S
Fluoranthene	1.156	0.031	0.2085	1.96	-386	30	130	1.965	51.9	50	SRE
Fluorene	0.3938	0.031	0.2085	0.256	66.1	30	130	0.4167	5.67	50	
Indeno(1,2,3-cd)pyrene	0.2273	0.031	0.2085	0.3735	-70.1	30	130	0.4681	69.3	50	SR
Naphthalene	0.2506	0.031	0.2085	0.1763	35.6	30	130	0.2833	12.3	50	
Phenanthrene	0.9774	0.031	0.2085	1.083	-50.6	30	130	1.445	38.6	50	SE
Pyrene	0.9745	0.031	0.2085	1.528	-265	30	130	1.731	55.9	50	SRE

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CLIENT: Burns & McDonnell
Work Order: 0411515
Project: 32088 Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12058

Sample ID	**MB-12058-SVOC**	SampType:	**MBLK**	TestCode:	**SVOC_SOIL**	Units:	**mg/Kg**	Prep Date:	**12/2/2004**	Run ID:	**SVOC-2_041202A**
Client ID:	**ZZZZZ**	Batch ID:	**12058**	TestNo:	**SW8270C**			Analysis Date:	**12/2/2004**	SeqNo:	**317255**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	0.17									
1,2-Dichlorobenzene	ND	0.17									
1,3-Dichlorobenzene	ND	0.17									
1,4-Dichlorobenzene	ND	0.17									
2, 2'-oxybis(1-Chloropropane)	ND	0.17									
2,4,5-Trichlorophenol	ND	0.33									
2,4,6-Trichlorophenol	ND	0.17									
2,4-Dichlorophenol	ND	0.17									
2,4-Dimethylphenol	ND	0.17									
2,4-Dinitrophenol	ND	0.80									
2,4-Dinitrotoluene	ND	0.17									
2,6-Dinitrotoluene	ND	0.17									
2-Chloronaphthalene	ND	0.17									
2-Chlorophenol	ND	0.17									
2-Methylnaphthalene	ND	0.17									
2-Methylphenol	ND	0.17									
2-Nitroaniline	ND	0.80									
2-Nitrophenol	ND	0.17									
3,3´-Dichlorobenzidine	ND	0.33									
3-Nitroaniline	ND	0.80									
4,6-Dinitro-2-methylphenol	ND	0.80									
4-Bromophenyl phenyl ether	ND	0.17									
4-Chloro-3-methylphenol	ND	0.17									
4-Chloroaniline	ND	0.17									
4-Chlorophenyl phenyl ether	ND	0.17									
4-Methylphenol	ND	0.17									
4-Nitroaniline	ND	0.80									
4-Nitrophenol	ND	0.80									
Acenaphthene	ND	0.17									
Acenaphthylene	ND	0.17									
Aniline	ND	0.17									

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CLIENT: Burns & McDonnell
Work Order: 0411515
Project: 32088 Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12058

Sample ID	**MB-12058-SVOC**	SampType:	**MBLK**	TestCode:	**SVOC_SOIL**	Units:	**mg/Kg**	Prep Date:	**12/2/2004**	Run ID:	**SVOC-2_041202A**
Client ID:	**ZZZZZ**	Batch ID:	**12058**	TestNo:	**SW8270C**			Analysis Date:	**12/2/2004**	SeqNo:	**317255**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	ND	0.17									
Benz(a)anthracene	ND	0.17									
Benzidine	ND	0.17									
Benzo(a)pyrene	ND	0.17									
Benzo(b)fluoranthene	ND	0.17									
Benzo(g,h,i)perylene	ND	0.17									
Benzo(k)fluoranthene	ND	0.17									
Benzoic acid	ND	0.80									
Benzyl alcohol	ND	0.17									
Bis(2-chloroethoxy)methane	ND	0.17									
Bis(2-chloroethyl)ether	ND	0.17									
Bis(2-ethylhexyl)phthalate	ND	0.17									
Butyl benzyl phthalate	ND	0.17									
Carbazole	ND	0.17									
Chrysene	ND	0.17									
Di-n-butyl phthalate	ND	0.17									
Di-n-octyl phthalate	ND	0.17									
Dibenz(a,h)anthracene	ND	0.17									
Dibenzofuran	ND	0.17									
Diethyl phthalate	ND	0.17									
Dimethyl phthalate	ND	0.17									
Fluoranthene	ND	0.17									
Fluorene	ND	0.17									
Hexachlorobenzene	ND	0.17									
Hexachlorobutadiene	ND	0.17									
Hexachlorocyclopentadiene	ND	0.17									
Hexachloroethane	ND	0.17									
Indeno(1,2,3-cd)pyrene	ND	0.17									
Isophorone	ND	0.17									
N-Nitrosodi-n-propylamine	ND	0.17									
N-Nitrosodimethylamine	ND	0.17									

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CLIENT: Burns & McDonnell
Work Order: 0411515
Project: 32088 Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12058

Sample ID	**MB-12058-SVOC**	SampType:	**MBLK**	TestCode:	**SVOC_SOIL**	Units:	**mg/Kg**	Prep Date:	**12/2/2004**	Run ID:	**SVOC-2_041202A**
Client ID:	**ZZZZZ**	Batch ID:	**12058**	TestNo:	**SW8270C**			Analysis Date:	**12/2/2004**	SeqNo:	**317255**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
N-Nitrosodiphenylamine	ND	0.17									
Naphthalene	ND	0.17									
Nitrobenzene	ND	0.17									
Pentachlorophenol	ND	0.80									
Phenanthrene	ND	0.17									
Phenol	ND	0.17									
Pyrene	ND	0.17									
Pyridine	ND	0.17									

Sample ID	**LCS-12058-SVOC**	SampType:	**LCS**	TestCode:	**SVOC_SOIL**	Units:	**mg/Kg**	Prep Date:	**12/2/2004**	Run ID:	**SVOC-2_041203A**
Client ID:	**ZZZZZ**	Batch ID:	**12058**	TestNo:	**SW8270C**			Analysis Date:	**12/3/2004**	SeqNo:	**317582**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.245	0.17	1.667	0	74.7	55	106	0	0		
1,4-Dichlorobenzene	1.11	0.17	1.667	0	66.6	55	90	0	0		
2,4-Dinitrotoluene	1.562	0.17	1.667	0	93.7	55	101	0	0		
2-Chlorophenol	2.44	0.17	3.333	0	73.2	61	91	0	0		
4-Chloro-3-methylphenol	3.251	0.17	3.333	0	97.5	62	100	0	0		
4-Nitrophenol	3.626	0.80	3.333	0	109	53	123	0	0		
Acenaphthene	1.403	0.17	1.667	0	84.1	65	101	0	0		
N-Nitrosodi-n-propylamine	1.798	0.17	1.667	0	108	55	100	0	0		S
Pentachlorophenol	3.583	0.80	3.333	0	108	40	120	0	0		
Phenol	2.836	0.17	3.333	0	85.1	60	91	0	0		
Pyrene	1.989	0.17	1.667	0	119	50	131	0	0		

Sample ID	**0411515-003BMS**	SampType:	**MS**	TestCode:	**SVOC_SOIL-**	Units:	**mg/Kg-dry**	Prep Date:	**12/2/2004**	Run ID:	**SVOC-2_041202A**
Client ID:	**WSS-SB50-003**	Batch ID:	**12058**	TestNo:	**SW8270C**			Analysis Date:	**12/3/2004**	SeqNo:	**317568**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	4.331	0.45	4.502	0	96.2	62	100	0	0		
2-Chlorophenol	3.2	0.45	4.502	0	71.1	61	91	0	0		

Qualifiers:
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CLIENT: Burns & McDonnell
Work Order: 0411515
Project: 32088 Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12058

Sample ID **0411515-003BMS** SampType: **MS** TestCode: **SVOC_SOIL-** Units: **mg/Kg-dry** Prep Date: **12/2/2004** Run ID: **SVOC-2_041202A**
Client ID: **WSS-SB50-003** Batch ID: **12058** TestNo: **SW8270C** Analysis Date: **12/3/2004** SeqNo: **317568**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	1.557	0.45	2.251	0	69.1	55	90	0	0		
2,4-Dinitrotoluene	0.9765	0.23	2.251	0	43.4	55	101	0	0		S
4-Nitrophenol	2.915	2.2	4.502	0	64.8	53	123	0	0		
N-Nitrosodi-n-propylamine	2.359	0.23	2.251	0	105	55	100	0	0		S
Pentachlorophenol	2.286	2.2	4.502	0	50.8	40	120	0	0		
Phenol	3.659	0.45	4.502	0	81.3	60	91	0	0		
1,2,4-Trichlorobenzene	1.895	0.45	2.251	0	84.2	55	106	0	0		

Sample ID **0411515-003BMSD** SampType: **MSD** TestCode: **SVOC_SOIL-** Units: **mg/Kg-dry** Prep Date: **12/2/2004** Run ID: **SVOC-2_041202A**
Client ID: **WSS-SB50-003** Batch ID: **12058** TestNo: **SW8270C** Analysis Date: **12/3/2004** SeqNo: **317569**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	4.559	0.45	4.5	0	101	62	100	4.331	5.11	33	S
2-Chlorophenol	3.524	0.45	4.5	0	78.3	61	91	3.2	9.63	50	
1,4-Dichlorobenzene	1.717	0.45	2.251	0	76.3	55	90	1.557	9.78	27	
2,4-Dinitrotoluene	1.013	0.23	2.251	0	45	55	101	0.9765	3.68	47	S
4-Nitrophenol	3.15	2.2	4.5	0	70	53	123	2.915	7.75	50	
N-Nitrosodi-n-propylamine	2.542	0.23	2.251	0	113	55	100	2.359	7.44	38	S
Pentachlorophenol	2.916	2.2	4.5	0	64.8	40	120	2.286	24.2	47	
Phenol	4.106	0.45	4.5	0	91.2	60	91	3.659	11.5	35	
1,2,4-Trichlorobenzene	2.084	0.45	2.251	0	92.6	55	106	1.895	9.49	23	

Qualifiers:
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CLIENT: Burns & McDonnell
Work Order: 0411515
Project: 32088 Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15505

Sample ID **VBLK120404-2** SampType: **MBLK** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041204A**
Client ID: **ZZZZZ** Batch ID: **R15505** TestNo: **SW5035/8260** Analysis Date: **12/4/2004** SeqNo: **317835**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.0050									
1,1,2,2-Tetrachloroethane	ND	0.0050									
1,1,2-Trichloroethane	ND	0.0050									
1,1-Dichloroethane	ND	0.0050									
1,1-Dichloroethene	ND	0.0050									
1,2-Dichloroethane	ND	0.0050									
1,2-Dichloropropane	ND	0.0050									
2-Butanone	ND	0.010									
2-Hexanone	ND	0.010									
4-Methyl-2-pentanone	ND	0.010									
Acetone	ND	0.025									
Benzene	ND	0.0050									
Bromodichloromethane	ND	0.0050									
Bromoform	ND	0.0050									
Bromomethane	ND	0.010									
Carbon disulfide	ND	0.0050									
Carbon tetrachloride	ND	0.0050									
Chlorobenzene	ND	0.0050									
Chloroethane	ND	0.010									
Chloroform	ND	0.0050									
Chloromethane	ND	0.010									
cis-1,2-Dichloroethene	ND	0.0050									
cis-1,3-Dichloropropene	ND	0.0050									
Dibromochloromethane	ND	0.0050									
Ethylbenzene	ND	0.0050									
Methyl tert-butyl ether	ND	0.0050									
Methylene chloride	0.00263	0.010									J
Styrene	ND	0.0050									
Tetrachloroethene	ND	0.0050									
Toluene	ND	0.0050									
trans-1,2-Dichloroethene	ND	0.0050									

Qualifiers:
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

Sample ID **VBLK120404-2**	SampType: **MBLK**	TestCode: **VOC_ENCOR**	Units: **mg/Kg**	Prep Date:	Run ID: **VOA-2_041204A**
Client ID: **ZZZZZ**	Batch ID: **R15505**	TestNo: **SW5035/8260**		Analysis Date: **12/4/2004**	SeqNo: **317835**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	ND	0.0050									
Trichloroethene	ND	0.0050									
Vinyl chloride	ND	0.0050									
Xylenes, Total	ND	0.010									

Sample ID **VLCS120404-2**	SampType: **LCS**	TestCode: **VOC_ENCOR**	Units: **mg/Kg**	Prep Date:	Run ID: **VOA-2_041204A**
Client ID: **ZZZZZ**	Batch ID: **R15505**	TestNo: **SW5035/8260**		Analysis Date: **12/4/2004**	SeqNo: **317836**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.05001	0.0050	0.05	0	100	70	130	0	0		
1,1,2,2-Tetrachloroethane	0.04472	0.0050	0.05	0	89.4	70	130	0	0		
1,1,2-Trichloroethane	0.04713	0.0050	0.05	0	94.3	70	130	0	0		
1,1-Dichloroethane	0.04661	0.0050	0.05	0	93.2	70	130	0	0		
1,1-Dichloroethene	0.04801	0.0050	0.05	0	96	70	130	0	0		
1,2-Dichloroethane	0.0467	0.0050	0.05	0	93.4	70	130	0	0		
1,2-Dichloropropane	0.04582	0.0050	0.05	0	91.6	70	130	0	0		
2-Butanone	0.04905	0.010	0.05	0	98.1	70	130	0	0		
2-Hexanone	0.04717	0.010	0.05	0	94.3	70	130	0	0		
4-Methyl-2-pentanone	0.04825	0.010	0.05	0	96.5	70	130	0	0		
Acetone	0.05607	0.025	0.05	0	112	50	150	0	0		
Benzene	0.04851	0.0050	0.05	0	97	70	130	0	0		
Bromodichloromethane	0.04391	0.0050	0.05	0	87.8	70	130	0	0		
Bromoform	0.04642	0.0050	0.05	0	92.8	70	130	0	0		
Bromomethane	0.03593	0.010	0.05	0	71.9	70	130	0	0		
Carbon disulfide	0.06304	0.0050	0.05	0	126	70	130	0	0		
Carbon tetrachloride	0.04955	0.0050	0.05	0	99.1	70	130	0	0		
Chlorobenzene	0.04974	0.0050	0.05	0	99.5	70	130	0	0		
Chloroethane	0.04898	0.010	0.05	0	98	70	130	0	0		
Chloroform	0.04742	0.0050	0.05	0	94.8	70	130	0	0		
Chloromethane	0.03727	0.010	0.05	0	74.5	70	130	0	0		
cis-1,2-Dichloroethene	0.04695	0.0050	0.05	0	93.9	70	130	0	0		

ANALYTICAL QC SUMMARY REPORT

BatchID: R15505

Sample ID **VLCS120404-2** SampType: **LCS** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041204A**
Client ID: **ZZZZZ** Batch ID: **R15505** TestNo: **SW5035/8260** Analysis Date: **12/4/2004** SeqNo: **317836**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	0.04625	0.0050	0.05	0	92.5	70	130	0	0		
Dibromochloromethane	0.04791	0.0050	0.05	0	95.8	70	130	0	0		
Ethylbenzene	0.05	0.0050	0.05	0	100	70	130	0	0		
Methyl tert-butyl ether	0.04703	0.0050	0.05	0	94.1	50	150	0	0		
Methylene chloride	0.04639	0.010	0.05	0.00263	87.5	70	130	0	0		
Styrene	0.04879	0.0050	0.05	0	97.6	70	130	0	0		
Tetrachloroethene	0.05447	0.0050	0.05	0	109	70	130	0	0		
Toluene	0.04844	0.0050	0.05	0	96.9	70	130	0	0		
trans-1,2-Dichloroethene	0.04861	0.0050	0.05	0	97.2	70	130	0	0		
trans-1,3-Dichloropropene	0.05387	0.0050	0.05	0	108	70	130	0	0		
Trichloroethene	0.04919	0.0050	0.05	0	98.4	70	130	0	0		
Vinyl chloride	0.04859	0.0050	0.05	0	97.2	70	130	0	0		
Xylenes, Total	0.1588	0.010	0.15	0	106	70	130	0	0		

Sample ID **VLCSD120404-2** SampType: **LCSD** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041204A**
Client ID: **ZZZZZ** Batch ID: **R15505** TestNo: **SW5035/8260** Analysis Date: **12/4/2004** SeqNo: **317837**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.04873	0.0050	0.05	0	97.5	70	130	0.05001	2.59	20	
1,1,2,2-Tetrachloroethane	0.04452	0.0050	0.05	0	89	70	130	0.04472	0.448	20	
1,1,2-Trichloroethane	0.04694	0.0050	0.05	0	93.9	70	130	0.04713	0.404	20	
1,1-Dichloroethane	0.04771	0.0050	0.05	0	95.4	70	130	0.04661	2.33	20	
1,1-Dichloroethene	0.04765	0.0050	0.05	0	95.3	70	130	0.04801	0.753	20	
1,2-Dichloroethane	0.04895	0.0050	0.05	0	97.9	70	130	0.0467	4.70	20	
1,2-Dichloropropane	0.04841	0.0050	0.05	0	96.8	70	130	0.04582	5.50	20	
2-Butanone	0.04638	0.010	0.05	0	92.8	70	130	0.04905	5.60	20	
2-Hexanone	0.04873	0.010	0.05	0	97.5	70	130	0.04717	3.25	20	
4-Methyl-2-pentanone	0.05153	0.010	0.05	0	103	70	130	0.04825	6.57	20	
Acetone	0.06114	0.025	0.05	0	122	50	150	0.05607	8.65	20	
Benzene	0.04839	0.0050	0.05	0	96.8	70	130	0.04851	0.248	20	
Bromodichloromethane	0.04538	0.0050	0.05	0	90.8	70	130	0.04391	3.29	20	

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CLIENT: Burns & McDonnell
Work Order: 0411515
Project: 32088 Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15505

Sample ID **VLCSD120404-2** SampType: **LCSD** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041204A**
Client ID: **ZZZZZ** Batch ID: **R15505** TestNo: **SW5035/8260** Analysis Date: **12/4/2004** SeqNo: **317837**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	0.04739	0.0050	0.05	0	94.8	70	130	0.04642	2.07	20	
Bromomethane	0.03774	0.010	0.05	0	75.5	70	130	0.03593	4.91	20	
Carbon disulfide	0.06289	0.0050	0.05	0	126	70	130	0.06304	0.238	20	
Carbon tetrachloride	0.0488	0.0050	0.05	0	97.6	70	130	0.04955	1.53	20	
Chlorobenzene	0.0494	0.0050	0.05	0	98.8	70	130	0.04974	0.686	20	
Chloroethane	0.04921	0.010	0.05	0	98.4	70	130	0.04898	0.468	20	
Chloroform	0.04836	0.0050	0.05	0	96.7	70	130	0.04742	1.96	20	
Chloromethane	0.03875	0.010	0.05	0	77.5	70	130	0.03727	3.89	20	
cis-1,2-Dichloroethene	0.04887	0.0050	0.05	0	97.7	70	130	0.04695	4.01	20	
cis-1,3-Dichloropropene	0.04814	0.0050	0.05	0	96.3	70	130	0.04625	4.00	20	
Dibromochloromethane	0.04889	0.0050	0.05	0	97.8	70	130	0.04791	2.02	20	
Ethylbenzene	0.04987	0.0050	0.05	0	99.7	70	130	0.05	0.260	20	
Methyl tert-butyl ether	0.05001	0.0050	0.05	0	100	50	150	0.04703	6.14	20	
Methylene chloride	0.04692	0.010	0.05	0.00263	88.6	70	130	0.04639	1.14	20	
Styrene	0.04789	0.0050	0.05	0	95.8	70	130	0.04879	1.86	20	
Tetrachloroethene	0.05277	0.0050	0.05	0	106	70	130	0.05447	3.17	20	
Toluene	0.04944	0.0050	0.05	0	98.9	70	130	0.04844	2.04	20	
trans-1,2-Dichloroethene	0.0501	0.0050	0.05	0	100	70	130	0.04861	3.02	20	
trans-1,3-Dichloropropene	0.05307	0.0050	0.05	0	106	70	130	0.05387	1.50	20	
Trichloroethene	0.04933	0.0050	0.05	0	98.7	70	130	0.04919	0.284	20	
Vinyl chloride	0.0497	0.0050	0.05	0	99.4	70	130	0.04859	2.26	20	
Xylenes, Total	0.1546	0.010	0.15	0	103	70	130	0.1588	2.70	20	

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CLIENT: Burns & McDonnell
Work Order: 0411515
Project: 32088 Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15510

Sample ID **VBLK120504-2** SampType: **MBLK** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041205A**
Client ID: **ZZZZZ** Batch ID: **R15510** TestNo: **SW5035/8260** Analysis Date: **12/5/2004** SeqNo: **317893**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.0050									
1,1,2,2-Tetrachloroethane	ND	0.0050									
1,1,2-Trichloroethane	ND	0.0050									
1,1-Dichloroethane	ND	0.0050									
1,1-Dichloroethene	ND	0.0050									
1,2-Dichloroethane	ND	0.0050									
1,2-Dichloropropane	ND	0.0050									
2-Butanone	ND	0.010									
2-Hexanone	ND	0.010									
4-Methyl-2-pentanone	ND	0.010									
Acetone	ND	0.025									
Benzene	ND	0.0050									
Bromodichloromethane	ND	0.0050									
Bromoform	ND	0.0050									
Bromomethane	ND	0.010									
Carbon disulfide	ND	0.0050									
Carbon tetrachloride	ND	0.0050									
Chlorobenzene	ND	0.0050									
Chloroethane	ND	0.010									
Chloroform	ND	0.0050									
Chloromethane	ND	0.010									
cis-1,2-Dichloroethene	ND	0.0050									
cis-1,3-Dichloropropene	ND	0.0050									
Dibromochloromethane	ND	0.0050									
Ethylbenzene	ND	0.0050									
Methyl tert-butyl ether	ND	0.0050									
Methylene chloride	0.00139	0.010									J
Styrene	ND	0.0050									
Tetrachloroethene	ND	0.0050									
Toluene	ND	0.0050									
trans-1,2-Dichloroethene	ND	0.0050									

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Sample ID **VBLK120504-2**	SampType: **MBLK**	TestCode: **VOC_ENCOR**	Units: **mg/Kg**	Prep Date:	Run ID: **VOA-2_041205A**
Client ID: **ZZZZZ**	Batch ID: **R15510**	TestNo: **SW5035/8260**		Analysis Date: **12/5/2004**	SeqNo: **317893**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	ND	0.0050									
Trichloroethene	ND	0.0050									
Vinyl chloride	ND	0.0050									
Xylenes, Total	ND	0.010									

Sample ID **VLCS120504-2**	SampType: **LCS**	TestCode: **VOC_ENCOR**	Units: **mg/Kg**	Prep Date:	Run ID: **VOA-2_041205A**
Client ID: **ZZZZZ**	Batch ID: **R15510**	TestNo: **SW5035/8260**		Analysis Date: **12/5/2004**	SeqNo: **317894**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.05018	0.0050	0.05	0	100	70	130	0	0		
1,1,2,2-Tetrachloroethane	0.04199	0.0050	0.05	0	84	70	130	0	0		
1,1,2-Trichloroethane	0.0474	0.0050	0.05	0	94.8	70	130	0	0		
1,1-Dichloroethane	0.04887	0.0050	0.05	0	97.7	70	130	0	0		
1,1-Dichloroethene	0.04892	0.0050	0.05	0	97.8	70	130	0	0		
1,2-Dichloroethane	0.04739	0.0050	0.05	0	94.8	70	130	0	0		
1,2-Dichloropropane	0.04603	0.0050	0.05	0	92.1	70	130	0	0		
2-Butanone	0.04513	0.010	0.05	0	90.3	70	130	0	0		
2-Hexanone	0.04515	0.010	0.05	0	90.3	70	130	0	0		
4-Methyl-2-pentanone	0.04566	0.010	0.05	0	91.3	70	130	0	0		
Acetone	0.06161	0.025	0.05	0	123	50	150	0	0		
Benzene	0.04711	0.0050	0.05	0	94.2	70	130	0	0		
Bromodichloromethane	0.04305	0.0050	0.05	0	86.1	70	130	0	0		
Bromoform	0.04622	0.0050	0.05	0	92.4	70	130	0	0		
Bromomethane	0.03514	0.010	0.05	0	70.3	70	130	0	0		
Carbon disulfide	0.06137	0.0050	0.05	0	123	70	130	0	0		
Carbon tetrachloride	0.04859	0.0050	0.05	0	97.2	70	130	0	0		
Chlorobenzene	0.04881	0.0050	0.05	0	97.6	70	130	0	0		
Chloroethane	0.04886	0.010	0.05	0	97.7	70	130	0	0		
Chloroform	0.04879	0.0050	0.05	0	97.6	70	130	0	0		
Chloromethane	0.038	0.010	0.05	0	76	70	130	0	0		
cis-1,2-Dichloroethene	0.05012	0.0050	0.05	0	100	70	130	0	0		

CLIENT: Burns & McDonnell
Work Order: 0411515
Project: 32088 Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15510

Sample ID **VLCS120504-2** SampType: **LCS** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041205A**
Client ID: **ZZZZZ** Batch ID: **R15510** TestNo: **SW5035/8260** Analysis Date: **12/5/2004** SeqNo: **317894**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	0.04727	0.0050	0.05	0	94.5	70	130	0	0		
Dibromochloromethane	0.0487	0.0050	0.05	0	97.4	70	130	0	0		
Ethylbenzene	0.04847	0.0050	0.05	0	96.9	70	130	0	0		
Methyl tert-butyl ether	0.04872	0.0050	0.05	0	97.4	50	150	0	0		
Methylene chloride	0.04823	0.010	0.05	0.00139	93.7	70	130	0	0		
Styrene	0.04622	0.0050	0.05	0	92.4	70	130	0	0		
Tetrachloroethene	0.0526	0.0050	0.05	0	105	70	130	0	0		
Toluene	0.04763	0.0050	0.05	0	95.3	70	130	0	0		
trans-1,2-Dichloroethene	0.05072	0.0050	0.05	0	101	70	130	0	0		
trans-1,3-Dichloropropene	0.05165	0.0050	0.05	0	103	70	130	0	0		
Trichloroethene	0.05031	0.0050	0.05	0	101	70	130	0	0		
Vinyl chloride	0.05024	0.0050	0.05	0	100	70	130	0	0		
Xylenes, Total	0.1518	0.010	0.15	0	101	70	130	0	0		

Sample ID **VLCSD120504-2** SampType: **LCSD** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041205A**
Client ID: **ZZZZZ** Batch ID: **R15510** TestNo: **SW5035/8260** Analysis Date: **12/5/2004** SeqNo: **317895**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.05132	0.0050	0.05	0	103	70	130	0.05018	2.25	20	
1,1,2,2-Tetrachloroethane	0.04491	0.0050	0.05	0	89.8	70	130	0.04199	6.72	20	
1,1,2-Trichloroethane	0.04998	0.0050	0.05	0	100	70	130	0.0474	5.30	20	
1,1-Dichloroethane	0.04775	0.0050	0.05	0	95.5	70	130	0.04887	2.32	20	
1,1-Dichloroethene	0.0489	0.0050	0.05	0	97.8	70	130	0.04892	0.0409	20	
1,2-Dichloroethane	0.0493	0.0050	0.05	0	98.6	70	130	0.04739	3.95	20	
1,2-Dichloropropane	0.04699	0.0050	0.05	0	94	70	130	0.04603	2.06	20	
2-Butanone	0.05156	0.010	0.05	0	103	70	130	0.04513	13.3	20	
2-Hexanone	0.04682	0.010	0.05	0	93.6	70	130	0.04515	3.63	20	
4-Methyl-2-pentanone	0.04937	0.010	0.05	0	98.7	70	130	0.04566	7.81	20	
Acetone	0.05599	0.025	0.05	0	112	50	150	0.06161	9.56	20	
Benzene	0.0481	0.0050	0.05	0	96.2	70	130	0.04711	2.08	20	
Bromodichloromethane	0.04611	0.0050	0.05	0	92.2	70	130	0.04305	6.86	20	

Qualifiers:
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CLIENT: Burns & McDonnell
Work Order: 0411515
Project: 32088 Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15510

Sample ID **VLCSD120504-2** SampType: **LCSD** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041205A**
Client ID: **ZZZZZ** Batch ID: **R15510** TestNo: **SW5035/8260** Analysis Date: **12/5/2004** SeqNo: **317895**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	0.05092	0.0050	0.05	0	102	70	130	0.04622	9.68	20	
Bromomethane	0.03729	0.010	0.05	0	74.6	70	130	0.03514	5.94	20	
Carbon disulfide	0.0633	0.0050	0.05	0	127	70	130	0.06137	3.10	20	
Carbon tetrachloride	0.05182	0.0050	0.05	0	104	70	130	0.04859	6.43	20	
Chlorobenzene	0.05096	0.0050	0.05	0	102	70	130	0.04881	4.31	20	
Chloroethane	0.04933	0.010	0.05	0	98.7	70	130	0.04886	0.957	20	
Chloroform	0.0495	0.0050	0.05	0	99	70	130	0.04879	1.44	20	
Chloromethane	0.0384	0.010	0.05	0	76.8	70	130	0.038	1.05	20	
cis-1,2-Dichloroethene	0.05085	0.0050	0.05	0	102	70	130	0.05012	1.45	20	
cis-1,3-Dichloropropene	0.04869	0.0050	0.05	0	97.4	70	130	0.04727	2.96	20	
Dibromochloromethane	0.05112	0.0050	0.05	0	102	70	130	0.0487	4.85	20	
Ethylbenzene	0.0511	0.0050	0.05	0	102	70	130	0.04847	5.28	20	
Methyl tert-butyl ether	0.05089	0.0050	0.05	0	102	50	150	0.04872	4.36	20	
Methylene chloride	0.04817	0.010	0.05	0.00139	93.6	70	130	0.04823	0.124	20	
Styrene	0.04986	0.0050	0.05	0	99.7	70	130	0.04622	7.58	20	
Tetrachloroethene	0.05527	0.0050	0.05	0	111	70	130	0.0526	4.95	20	
Toluene	0.04941	0.0050	0.05	0	98.8	70	130	0.04763	3.67	20	
trans-1,2-Dichloroethene	0.05097	0.0050	0.05	0	102	70	130	0.05072	0.492	20	
trans-1,3-Dichloropropene	0.05494	0.0050	0.05	0	110	70	130	0.05165	6.17	20	
Trichloroethene	0.05253	0.0050	0.05	0	105	70	130	0.05031	4.32	20	
Vinyl chloride	0.05152	0.0050	0.05	0	103	70	130	0.05024	2.52	20	
Xylenes, Total	0.1588	0.010	0.15	0	106	70	130	0.1518	4.50	20	

Qualifiers:
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H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0411515
Project: 32088 Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15427

Sample ID **MBLK**	SampType: **MBLK**	TestCode: **PMOIST**	Units: **wt%**	Prep Date: **11/30/2004**	Run ID: **BALANCE_041130A**
Client ID: **ZZZZZ**	Batch ID: **R15427**	TestNo: **D2974**		Analysis Date: **12/1/2004**	SeqNo: **316168**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	ND	0.01000									*

Sample ID **LCS-S**	SampType: **LCS**	TestCode: **PMOIST**	Units: **wt%**	Prep Date: **11/30/2004**	Run ID: **BALANCE_041130A**
Client ID: **ZZZZZ**	Batch ID: **R15427**	TestNo: **D2974**		Analysis Date: **12/1/2004**	SeqNo: **316169**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	4.89	0.01000	5	0	97.8	80	120	0	0		*

Sample ID **LCS-W**	SampType: **LCS**	TestCode: **PMOIST**	Units: **wt%**	Prep Date: **11/30/2004**	Run ID: **BALANCE_041130A**
Client ID: **ZZZZZ**	Batch ID: **R15427**	TestNo: **D2974**		Analysis Date: **12/1/2004**	SeqNo: **316170**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	99.8	0.01000	99.8	0	100	80	120	0	0		*

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December 15, 2004

Burns & McDonnell
2601 W. 22nd Street
OakBrook, IL 60523-1229
Telephone: (312) 563-0371
Fax: (630) 990-0301

RE: 32088, Willow Street Station- General Iron STAT Project No: 0412018

Dear Diane Saftic:

STAT Analysis received 9 samples for the referenced project on 12/1/2004. The analytical results are presented in the following report.

This report is revised to reflect changes made after the initial report was issued.

All analyses were performed in accordance with the requirements of 35 IAC part 186 (Accreditation #100445). Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Craig Chawla
Project Manager

Client: Burns & McDonnell
Project: 32088, Willow Street Station- General Iron
Lab Order: 0412018

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0412018-001A	WSS-SB57-001	10-12'	11/30/2004 8:25:00 AM	12/1/2004
0412018-001B	WSS-SB57-001	10-12'	11/30/2004 8:25:00 AM	12/1/2004
0412018-002A	WSS-SB57-002	16-18'	11/30/2004 8:35:00 AM	12/1/2004
0412018-002B	WSS-SB57-002	16-18'	11/30/2004 8:35:00 AM	12/1/2004
0412018-003A	WSS-SB46-001	10-12'	11/30/2004 12:00:00 PM	12/1/2004
0412018-003B	WSS-SB46-001	10-12'	11/30/2004 12:00:00 PM	12/1/2004
0412018-004A	WSS-SB46-002	16-18'	11/30/2004 12:10:00 PM	12/1/2004
0412018-004B	WSS-SB46-002	16-18'	11/30/2004 12:10:00 PM	12/1/2004
0412018-005A	WSS-SB48-001	8-10'	11/30/2004 2:35:00 PM	12/1/2004
0412018-005B	WSS-SB48-001	8-10'	11/30/2004 2:35:00 PM	12/1/2004
0412018-006A	WSS-SB48-002	18-20'	11/30/2004 2:45:00 PM	12/1/2004
0412018-006B	WSS-SB48-002	18-20'	11/30/2004 2:45:00 PM	12/1/2004
0412018-007A	WSS-SB49-001		11/30/2004 4:00:00 PM	12/1/2004
0412018-007B	WSS-SB49-001		11/30/2004 4:00:00 PM	12/1/2004
0412018-008A	WSS-SB49-002		11/30/2004 4:15:00 PM	12/1/2004
0412018-009A	WSS-TB02			12/1/2004

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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB57-001
Lab Order:	0412018	**Tag Number:**	10-12'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 8:25:00 AM
Lab ID:	0412018-001A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/2/2004**		Analyst: **PS**
Acetone	ND	0.047		mg/Kg-dry	1	12/5/2004
Benzene	ND	0.0093		mg/Kg-dry	1	12/5/2004
Bromodichloromethane	ND	0.0093		mg/Kg-dry	1	12/5/2004
Bromoform	ND	0.0093		mg/Kg-dry	1	12/5/2004
Bromomethane	ND	0.019		mg/Kg-dry	1	12/5/2004
2-Butanone	ND	0.019		mg/Kg-dry	1	12/5/2004
Carbon disulfide	ND	0.0093		mg/Kg-dry	1	12/5/2004
Carbon tetrachloride	ND	0.0093		mg/Kg-dry	1	12/5/2004
Chlorobenzene	ND	0.0093		mg/Kg-dry	1	12/5/2004
Chloroethane	ND	0.019		mg/Kg-dry	1	12/5/2004
Chloroform	ND	0.0093		mg/Kg-dry	1	12/5/2004
Chloromethane	ND	0.0093		mg/Kg-dry	1	12/5/2004
Dibromochloromethane	ND	0.0093		mg/Kg-dry	1	12/5/2004
1,1-Dichloroethane	ND	0.0093		mg/Kg-dry	1	12/5/2004
1,2-Dichloroethane	ND	0.0093		mg/Kg-dry	1	12/5/2004
1,1-Dichloroethene	ND	0.0093		mg/Kg-dry	1	12/5/2004
cis-1,2-Dichloroethene	ND	0.0093		mg/Kg-dry	1	12/5/2004
trans-1,2-Dichloroethene	ND	0.0093		mg/Kg-dry	1	12/5/2004
1,2-Dichloropropane	ND	0.0093		mg/Kg-dry	1	12/5/2004
cis-1,3-Dichloropropene	ND	0.0093		mg/Kg-dry	1	12/5/2004
trans-1,3-Dichloropropene	ND	0.0093		mg/Kg-dry	1	12/5/2004
Ethylbenzene	ND	0.0093		mg/Kg-dry	1	12/5/2004
2-Hexanone	ND	0.019		mg/Kg-dry	1	12/5/2004
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	12/5/2004
Methylene chloride	ND	0.019		mg/Kg-dry	1	12/5/2004
Methyl tert-butyl ether	ND	0.0093		mg/Kg-dry	1	12/5/2004
Styrene	ND	0.0093		mg/Kg-dry	1	12/5/2004
1,1,2,2-Tetrachloroethane	ND	0.0093		mg/Kg-dry	1	12/5/2004
Tetrachloroethene	ND	0.0093		mg/Kg-dry	1	12/5/2004
Toluene	ND	0.0093		mg/Kg-dry	1	12/5/2004
1,1,1-Trichloroethane	ND	0.0093		mg/Kg-dry	1	12/5/2004
1,1,2-Trichloroethane	ND	0.0093		mg/Kg-dry	1	12/5/2004
Trichloroethene	ND	0.0093		mg/Kg-dry	1	12/5/2004
Vinyl chloride	ND	0.0093		mg/Kg-dry	1	12/5/2004
Xylenes, Total	ND	0.019		mg/Kg-dry	1	12/5/2004

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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB57-001
Lab Order:	0412018	**Tag Number:**	10-12'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 8:25:00 AM
Lab ID:	0412018-001B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/6/2004**		Analyst: **JF**
TPH (Gasoline)	ND	29	*	mg/Kg-dry	1	12/7/2004
TPH (Diesel)	660	29	*	mg/Kg-dry	1	12/7/2004
TPH (Oil)	1900	29	*	mg/Kg-dry	1	12/7/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **VS**
Acenaphthene	3.9	3.7		mg/Kg-dry	100	12/7/2004
Acenaphthylene	0.85	0.37		mg/Kg-dry	10	12/6/2004
Anthracene	11	3.7		mg/Kg-dry	100	12/7/2004
Benz(a)anthracene	18	3.7		mg/Kg-dry	100	12/7/2004
Benzo(b)fluoranthene	11	3.7		mg/Kg-dry	100	12/7/2004
Benzo(k)fluoranthene	12	3.7		mg/Kg-dry	100	12/7/2004
Benzo(g,h,i)perylene	6.7	3.7		mg/Kg-dry	100	12/7/2004
Benzo(a)pyrene	15	3.7		mg/Kg-dry	100	12/7/2004
Chrysene	16	3.7		mg/Kg-dry	100	12/7/2004
Dibenz(a,h)anthracene	1.8	0.37		mg/Kg-dry	10	12/6/2004
Fluoranthene	31	3.7		mg/Kg-dry	100	12/7/2004
Fluorene	6.4	3.7		mg/Kg-dry	100	12/7/2004
Indeno(1,2,3-cd)pyrene	6.9	3.7		mg/Kg-dry	100	12/7/2004
Naphthalene	4.1	3.7		mg/Kg-dry	100	12/7/2004
Phenanthrene	26	3.7		mg/Kg-dry	100	12/7/2004
Pyrene	29	3.7		mg/Kg-dry	100	12/7/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.48		mg/Kg-dry	1	12/7/2004
Bis(2-chloroethyl)ether	ND	0.48		mg/Kg-dry	1	12/7/2004
Bis(2-ethylhexyl)phthalate	ND	0.48		mg/Kg-dry	1	12/7/2004
4-Bromophenyl phenyl ether	ND	0.48		mg/Kg-dry	1	12/7/2004
Butyl benzyl phthalate	ND	0.48		mg/Kg-dry	1	12/7/2004
Carbazole	4.9	0.48		mg/Kg-dry	1	12/7/2004
4-Chloro-3-methylphenol	ND	0.48		mg/Kg-dry	1	12/7/2004
4-Chloroaniline	ND	0.48		mg/Kg-dry	1	12/7/2004
2-Chloronaphthalene	ND	0.48		mg/Kg-dry	1	12/7/2004
2-Chlorophenol	ND	0.48		mg/Kg-dry	1	12/7/2004
4-Chlorophenyl phenyl ether	ND	0.48		mg/Kg-dry	1	12/7/2004
Dibenzofuran	3.4	0.48		mg/Kg-dry	1	12/7/2004
1,2-Dichlorobenzene	ND	0.48		mg/Kg-dry	1	12/7/2004
1,3-Dichlorobenzene	ND	0.48		mg/Kg-dry	1	12/7/2004
1,4-Dichlorobenzene	ND	0.48		mg/Kg-dry	1	12/7/2004
3,3´-Dichlorobenzidine	ND	0.97		mg/Kg-dry	1	12/7/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB57-001
Lab Order:	0412018	**Tag Number:**	10-12'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 8:25:00 AM
Lab ID:	0412018-001B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.48		mg/Kg-dry	1	12/7/2004
Diethyl phthalate	ND	0.48		mg/Kg-dry	1	12/7/2004
Dimethyl phthalate	ND	0.48		mg/Kg-dry	1	12/7/2004
Di-n-butyl phthalate	ND	0.48		mg/Kg-dry	1	12/7/2004
2,4-Dimethylphenol	ND	0.48		mg/Kg-dry	1	12/7/2004
4,6-Dinitro-2-methylphenol	ND	2.4		mg/Kg-dry	1	12/7/2004
2,4-Dinitrophenol	ND	2.4		mg/Kg-dry	1	12/7/2004
2,4-Dinitrotoluene	ND	0.25		mg/Kg-dry	1	12/7/2004
2,6-Dinitrotoluene	ND	0.25		mg/Kg-dry	1	12/7/2004
Di-n-octyl phthalate	ND	0.48		mg/Kg-dry	1	12/7/2004
Hexachlorobenzene	ND	0.48		mg/Kg-dry	1	12/7/2004
Hexachlorobutadiene	ND	0.48		mg/Kg-dry	1	12/7/2004
Hexachlorocyclopentadiene	ND	0.48		mg/Kg-dry	1	12/7/2004
Hexachloroethane	ND	0.48		mg/Kg-dry	1	12/7/2004
Isophorone	ND	0.48		mg/Kg-dry	1	12/7/2004
2-Methylnaphthalene	3	0.48		mg/Kg-dry	1	12/7/2004
2-Methylphenol	ND	0.48		mg/Kg-dry	1	12/7/2004
4-Methylphenol	2.7	0.48		mg/Kg-dry	1	12/7/2004
2-Nitroaniline	ND	2.4		mg/Kg-dry	1	12/7/2004
3-Nitroaniline	ND	2.4		mg/Kg-dry	1	12/7/2004
4-Nitroaniline	ND	2.4		mg/Kg-dry	1	12/7/2004
Nitrobenzene	ND	0.25		mg/Kg-dry	1	12/7/2004
2-Nitrophenol	ND	0.48		mg/Kg-dry	1	12/7/2004
4-Nitrophenol	ND	2.4		mg/Kg-dry	1	12/7/2004
N-Nitrosodi-n-propylamine	ND	0.25		mg/Kg-dry	1	12/7/2004
N-Nitrosodiphenylamine	ND	0.48		mg/Kg-dry	1	12/7/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.48		mg/Kg-dry	1	12/7/2004
Pentachlorophenol	ND	2.4		mg/Kg-dry	1	12/7/2004
Phenol	ND	0.48		mg/Kg-dry	1	12/7/2004
1,2,4-Trichlorobenzene	ND	0.48		mg/Kg-dry	1	12/7/2004
2,4,5-Trichlorophenol	ND	0.97		mg/Kg-dry	1	12/7/2004
2,4,6-Trichlorophenol	ND	0.48		mg/Kg-dry	1	12/7/2004
Percent Moisture	**D2974**			Prep Date: **12/2/2004**		Analyst: **RW**
Percent Moisture	32.19	0.01	*	wt%	1	12/3/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB57-002
Lab Order:	0412018	**Tag Number:**	16-18'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 8:35:00 AM
Lab ID:	0412018-002A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/2/2004**		Analyst: **PS**
Acetone	ND	0.028		mg/Kg-dry	1	12/5/2004
Benzene	ND	0.0057		mg/Kg-dry	1	12/5/2004
Bromodichloromethane	ND	0.0057		mg/Kg-dry	1	12/5/2004
Bromoform	ND	0.0057		mg/Kg-dry	1	12/5/2004
Bromomethane	ND	0.011		mg/Kg-dry	1	12/5/2004
2-Butanone	ND	0.011		mg/Kg-dry	1	12/5/2004
Carbon disulfide	ND	0.0057		mg/Kg-dry	1	12/5/2004
Carbon tetrachloride	ND	0.0057		mg/Kg-dry	1	12/5/2004
Chlorobenzene	ND	0.0057		mg/Kg-dry	1	12/5/2004
Chloroethane	ND	0.011		mg/Kg-dry	1	12/5/2004
Chloroform	ND	0.0057		mg/Kg-dry	1	12/5/2004
Chloromethane	ND	0.0057		mg/Kg-dry	1	12/5/2004
Dibromochloromethane	ND	0.0057		mg/Kg-dry	1	12/5/2004
1,1-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/5/2004
1,2-Dichloroethane	ND	0.0057		mg/Kg-dry	1	12/5/2004
1,1-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/5/2004
cis-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/5/2004
trans-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	12/5/2004
1,2-Dichloropropane	ND	0.0057		mg/Kg-dry	1	12/5/2004
cis-1,3-Dichloropropene	ND	0.0057		mg/Kg-dry	1	12/5/2004
trans-1,3-Dichloropropene	ND	0.0057		mg/Kg-dry	1	12/5/2004
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	12/5/2004
2-Hexanone	ND	0.011		mg/Kg-dry	1	12/5/2004
4-Methyl-2-pentanone	ND	0.011		mg/Kg-dry	1	12/5/2004
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/5/2004
Methyl tert-butyl ether	ND	0.0057		mg/Kg-dry	1	12/5/2004
Styrene	ND	0.0057		mg/Kg-dry	1	12/5/2004
1,1,2,2-Tetrachloroethane	ND	0.0057		mg/Kg-dry	1	12/5/2004
Tetrachloroethene	ND	0.0057		mg/Kg-dry	1	12/5/2004
Toluene	ND	0.0057		mg/Kg-dry	1	12/5/2004
1,1,1-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/5/2004
1,1,2-Trichloroethane	ND	0.0057		mg/Kg-dry	1	12/5/2004
Trichloroethene	ND	0.0057		mg/Kg-dry	1	12/5/2004
Vinyl chloride	ND	0.0057		mg/Kg-dry	1	12/5/2004
Xylenes, Total	ND	0.011		mg/Kg-dry	1	12/5/2004

Qualifiers:
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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB57-002
Lab Order:	0412018	**Tag Number:**	16-18'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 8:35:00 AM
Lab ID:	0412018-002B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/6/2004**		Analyst: **JF**
TPH (Gasoline)	ND	24	*	mg/Kg-dry	1	12/7/2004
TPH (Diesel)	ND	24	*	mg/Kg-dry	1	12/7/2004
TPH (Oil)	ND	24	*	mg/Kg-dry	1	12/7/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	12/5/2004
Acenaphthylene	ND	0.03		mg/Kg-dry	1	12/5/2004
Anthracene	ND	0.03		mg/Kg-dry	1	12/5/2004
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	12/5/2004
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	12/5/2004
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	12/5/2004
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	12/5/2004
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	12/5/2004
Chrysene	0.037	0.03		mg/Kg-dry	1	12/5/2004
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	12/5/2004
Fluoranthene	0.056	0.03		mg/Kg-dry	1	12/5/2004
Fluorene	ND	0.03		mg/Kg-dry	1	12/5/2004
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	12/5/2004
Naphthalene	0.054	0.03		mg/Kg-dry	1	12/5/2004
Phenanthrene	0.11	0.03		mg/Kg-dry	1	12/5/2004
Pyrene	0.057	0.03		mg/Kg-dry	1	12/5/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.39		mg/Kg-dry	1	12/6/2004
Bis(2-chloroethyl)ether	ND	0.39		mg/Kg-dry	1	12/6/2004
Bis(2-ethylhexyl)phthalate	ND	0.39		mg/Kg-dry	1	12/6/2004
4-Bromophenyl phenyl ether	ND	0.39		mg/Kg-dry	1	12/6/2004
Butyl benzyl phthalate	ND	0.39		mg/Kg-dry	1	12/6/2004
Carbazole	ND	0.39		mg/Kg-dry	1	12/6/2004
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	12/6/2004
4-Chloroaniline	ND	0.39		mg/Kg-dry	1	12/6/2004
2-Chloronaphthalene	ND	0.39		mg/Kg-dry	1	12/6/2004
2-Chlorophenol	ND	0.39		mg/Kg-dry	1	12/6/2004
4-Chlorophenyl phenyl ether	ND	0.39		mg/Kg-dry	1	12/6/2004
Dibenzofuran	ND	0.39		mg/Kg-dry	1	12/6/2004
1,2-Dichlorobenzene	ND	0.39		mg/Kg-dry	1	12/6/2004
1,3-Dichlorobenzene	ND	0.39		mg/Kg-dry	1	12/6/2004
1,4-Dichlorobenzene	ND	0.39		mg/Kg-dry	1	12/6/2004
3,3´-Dichlorobenzidine	ND	0.79		mg/Kg-dry	1	12/6/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB57-002
Lab Order:	0412018	**Tag Number:**	16-18'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 8:35:00 AM
Lab ID:	0412018-002B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.39		mg/Kg-dry	1	12/6/2004
Diethyl phthalate	ND	0.39		mg/Kg-dry	1	12/6/2004
Dimethyl phthalate	ND	0.39		mg/Kg-dry	1	12/6/2004
Di-n-butyl phthalate	ND	0.39		mg/Kg-dry	1	12/6/2004
2,4-Dimethylphenol	ND	0.39		mg/Kg-dry	1	12/6/2004
4,6-Dinitro-2-methylphenol	ND	1.9		mg/Kg-dry	1	12/6/2004
2,4-Dinitrophenol	ND	1.9		mg/Kg-dry	1	12/6/2004
2,4-Dinitrotoluene	ND	0.2		mg/Kg-dry	1	12/6/2004
2,6-Dinitrotoluene	ND	0.2		mg/Kg-dry	1	12/6/2004
Di-n-octyl phthalate	ND	0.39		mg/Kg-dry	1	12/6/2004
Hexachlorobenzene	ND	0.39		mg/Kg-dry	1	12/6/2004
Hexachlorobutadiene	ND	0.39		mg/Kg-dry	1	12/6/2004
Hexachlorocyclopentadiene	ND	0.39		mg/Kg-dry	1	12/6/2004
Hexachloroethane	ND	0.39		mg/Kg-dry	1	12/6/2004
Isophorone	ND	0.39		mg/Kg-dry	1	12/6/2004
2-Methylnaphthalene	ND	0.39		mg/Kg-dry	1	12/6/2004
2-Methylphenol	ND	0.39		mg/Kg-dry	1	12/6/2004
4-Methylphenol	ND	0.39		mg/Kg-dry	1	12/6/2004
2-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/6/2004
3-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/6/2004
4-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/6/2004
Nitrobenzene	ND	0.2		mg/Kg-dry	1	12/6/2004
2-Nitrophenol	ND	0.39		mg/Kg-dry	1	12/6/2004
4-Nitrophenol	ND	1.9		mg/Kg-dry	1	12/6/2004
N-Nitrosodi-n-propylamine	ND	0.2		mg/Kg-dry	1	12/6/2004
N-Nitrosodiphenylamine	ND	0.39		mg/Kg-dry	1	12/6/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.39		mg/Kg-dry	1	12/6/2004
Pentachlorophenol	ND	1.9		mg/Kg-dry	1	12/6/2004
Phenol	ND	0.39		mg/Kg-dry	1	12/6/2004
1,2,4-Trichlorobenzene	ND	0.39		mg/Kg-dry	1	12/6/2004
2,4,5-Trichlorophenol	ND	0.79		mg/Kg-dry	1	12/6/2004
2,4,6-Trichlorophenol	ND	0.39		mg/Kg-dry	1	12/6/2004
Percent Moisture	**D2974**			Prep Date: **12/2/2004**		Analyst: **RW**
Percent Moisture	17.83	0.01	*	wt%	1	12/3/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB46-001
Lab Order:	0412018	**Tag Number:**	10-12'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 12:00:00 PM
Lab ID:	0412018-003A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/2/2004**		Analyst: **PS**
Acetone	ND	0.036		mg/Kg-dry	1	12/5/2004
Benzene	ND	0.0073		mg/Kg-dry	1	12/5/2004
Bromodichloromethane	ND	0.0073		mg/Kg-dry	1	12/5/2004
Bromoform	ND	0.0073		mg/Kg-dry	1	12/5/2004
Bromomethane	ND	0.015		mg/Kg-dry	1	12/5/2004
2-Butanone	ND	0.015		mg/Kg-dry	1	12/5/2004
Carbon disulfide	ND	0.0073		mg/Kg-dry	1	12/5/2004
Carbon tetrachloride	ND	0.0073		mg/Kg-dry	1	12/5/2004
Chlorobenzene	ND	0.0073		mg/Kg-dry	1	12/5/2004
Chloroethane	ND	0.015		mg/Kg-dry	1	12/5/2004
Chloroform	ND	0.0073		mg/Kg-dry	1	12/5/2004
Chloromethane	ND	0.0073		mg/Kg-dry	1	12/5/2004
Dibromochloromethane	ND	0.0073		mg/Kg-dry	1	12/5/2004
1,1-Dichloroethane	ND	0.0073		mg/Kg-dry	1	12/5/2004
1,2-Dichloroethane	ND	0.0073		mg/Kg-dry	1	12/5/2004
1,1-Dichloroethene	ND	0.0073		mg/Kg-dry	1	12/5/2004
cis-1,2-Dichloroethene	ND	0.0073		mg/Kg-dry	1	12/5/2004
trans-1,2-Dichloroethene	ND	0.0073		mg/Kg-dry	1	12/5/2004
1,2-Dichloropropane	ND	0.0073		mg/Kg-dry	1	12/5/2004
cis-1,3-Dichloropropene	ND	0.0073		mg/Kg-dry	1	12/5/2004
trans-1,3-Dichloropropene	ND	0.0073		mg/Kg-dry	1	12/5/2004
Ethylbenzene	ND	0.0073		mg/Kg-dry	1	12/5/2004
2-Hexanone	ND	0.015		mg/Kg-dry	1	12/5/2004
4-Methyl-2-pentanone	ND	0.015		mg/Kg-dry	1	12/5/2004
Methylene chloride	ND	0.015		mg/Kg-dry	1	12/5/2004
Methyl tert-butyl ether	ND	0.0073		mg/Kg-dry	1	12/5/2004
Styrene	ND	0.0073		mg/Kg-dry	1	12/5/2004
1,1,2,2-Tetrachloroethane	ND	0.0073		mg/Kg-dry	1	12/5/2004
Tetrachloroethene	ND	0.0073		mg/Kg-dry	1	12/5/2004
Toluene	ND	0.0073		mg/Kg-dry	1	12/5/2004
1,1,1-Trichloroethane	ND	0.0073		mg/Kg-dry	1	12/5/2004
1,1,2-Trichloroethane	ND	0.0073		mg/Kg-dry	1	12/5/2004
Trichloroethene	ND	0.0073		mg/Kg-dry	1	12/5/2004
Vinyl chloride	ND	0.0073		mg/Kg-dry	1	12/5/2004
Xylenes, Total	ND	0.015		mg/Kg-dry	1	12/5/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB46-001
Lab Order:	0412018	**Tag Number:**	10-12'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 12:00:00 PM
Lab ID:	0412018-003B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/6/2004**		Analyst: **JF**
TPH (Gasoline)	ND	26	*	mg/Kg-dry	1	12/7/2004
TPH (Diesel)	140	26	*	mg/Kg-dry	1	12/7/2004
TPH (Oil)	410	26	*	mg/Kg-dry	1	12/7/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **VS**
Acenaphthene	4.9	3.3		mg/Kg-dry	100	12/7/2004
Acenaphthylene	0.73	0.33		mg/Kg-dry	10	12/6/2004
Anthracene	6.4	3.3		mg/Kg-dry	100	12/7/2004
Benz(a)anthracene	5.8	3.3		mg/Kg-dry	100	12/7/2004
Benzo(b)fluoranthene	4.5	3.3		mg/Kg-dry	100	12/7/2004
Benzo(k)fluoranthene	4.1	0.33		mg/Kg-dry	10	12/6/2004
Benzo(g,h,i)perylene	2.7	0.33		mg/Kg-dry	10	12/6/2004
Benzo(a)pyrene	5.9	3.3		mg/Kg-dry	100	12/7/2004
Chrysene	5.4	3.3		mg/Kg-dry	100	12/7/2004
Dibenz(a,h)anthracene	0.83	0.33		mg/Kg-dry	10	12/6/2004
Fluoranthene	13	3.3		mg/Kg-dry	100	12/7/2004
Fluorene	3.8	3.3		mg/Kg-dry	100	12/7/2004
Indeno(1,2,3-cd)pyrene	2.4	0.33		mg/Kg-dry	10	12/6/2004
Naphthalene	6.5	3.3		mg/Kg-dry	100	12/7/2004
Phenanthrene	17	3.3		mg/Kg-dry	100	12/7/2004
Pyrene	14	3.3		mg/Kg-dry	100	12/7/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.43		mg/Kg-dry	1	12/8/2004
Bis(2-chloroethyl)ether	ND	0.43		mg/Kg-dry	1	12/8/2004
Bis(2-ethylhexyl)phthalate	ND	0.43		mg/Kg-dry	1	12/8/2004
4-Bromophenyl phenyl ether	ND	0.43		mg/Kg-dry	1	12/8/2004
Butyl benzyl phthalate	ND	0.43		mg/Kg-dry	1	12/8/2004
Carbazole	0.87	0.43		mg/Kg-dry	1	12/8/2004
4-Chloro-3-methylphenol	ND	0.43		mg/Kg-dry	1	12/8/2004
4-Chloroaniline	ND	0.43		mg/Kg-dry	1	12/8/2004
2-Chloronaphthalene	ND	0.43		mg/Kg-dry	1	12/8/2004
2-Chlorophenol	ND	0.43		mg/Kg-dry	1	12/8/2004
4-Chlorophenyl phenyl ether	ND	0.43		mg/Kg-dry	1	12/8/2004
Dibenzofuran	1.8	0.43		mg/Kg-dry	1	12/8/2004
1,2-Dichlorobenzene	ND	0.43		mg/Kg-dry	1	12/8/2004
1,3-Dichlorobenzene	ND	0.43		mg/Kg-dry	1	12/8/2004
1,4-Dichlorobenzene	ND	0.43		mg/Kg-dry	1	12/8/2004
3,3´-Dichlorobenzidine	ND	0.86		mg/Kg-dry	1	12/8/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB46-001
Lab Order:	0412018	**Tag Number:**	10-12'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 12:00:00 PM
Lab ID:	0412018-003B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.43		mg/Kg-dry	1	12/8/2004
Diethyl phthalate	ND	0.43		mg/Kg-dry	1	12/8/2004
Dimethyl phthalate	ND	0.43		mg/Kg-dry	1	12/8/2004
Di-n-butyl phthalate	ND	0.43		mg/Kg-dry	1	12/8/2004
2,4-Dimethylphenol	ND	0.43		mg/Kg-dry	1	12/8/2004
4,6-Dinitro-2-methylphenol	ND	2.1		mg/Kg-dry	1	12/8/2004
2,4-Dinitrophenol	ND	2.1		mg/Kg-dry	1	12/8/2004
2,4-Dinitrotoluene	ND	0.22		mg/Kg-dry	1	12/8/2004
2,6-Dinitrotoluene	ND	0.22		mg/Kg-dry	1	12/8/2004
Di-n-octyl phthalate	ND	0.43		mg/Kg-dry	1	12/8/2004
Hexachlorobenzene	ND	0.43		mg/Kg-dry	1	12/8/2004
Hexachlorobutadiene	ND	0.43		mg/Kg-dry	1	12/8/2004
Hexachlorocyclopentadiene	ND	0.43		mg/Kg-dry	1	12/8/2004
Hexachloroethane	ND	0.43		mg/Kg-dry	1	12/8/2004
Isophorone	ND	0.43		mg/Kg-dry	1	12/8/2004
2-Methylnaphthalene	2.8	0.43		mg/Kg-dry	1	12/8/2004
2-Methylphenol	ND	0.43		mg/Kg-dry	1	12/8/2004
4-Methylphenol	ND	0.43		mg/Kg-dry	1	12/8/2004
2-Nitroaniline	ND	2.1		mg/Kg-dry	1	12/8/2004
3-Nitroaniline	ND	2.1		mg/Kg-dry	1	12/8/2004
4-Nitroaniline	ND	2.1		mg/Kg-dry	1	12/8/2004
Nitrobenzene	ND	0.22		mg/Kg-dry	1	12/8/2004
2-Nitrophenol	ND	0.43		mg/Kg-dry	1	12/8/2004
4-Nitrophenol	ND	2.1		mg/Kg-dry	1	12/8/2004
N-Nitrosodi-n-propylamine	ND	0.22		mg/Kg-dry	1	12/8/2004
N-Nitrosodiphenylamine	ND	0.43		mg/Kg-dry	1	12/8/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.43		mg/Kg-dry	1	12/8/2004
Pentachlorophenol	ND	2.1		mg/Kg-dry	1	12/8/2004
Phenol	ND	0.43		mg/Kg-dry	1	12/8/2004
1,2,4-Trichlorobenzene	ND	0.43		mg/Kg-dry	1	12/8/2004
2,4,5-Trichlorophenol	ND	0.86		mg/Kg-dry	1	12/8/2004
2,4,6-Trichlorophenol	ND	0.43		mg/Kg-dry	1	12/8/2004
Percent Moisture	**D2974**			Prep Date: **12/2/2004**		Analyst: **RW**
Percent Moisture	25.16	0.01	*	wt%	1	12/3/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB46-002
Lab Order:	0412018	**Tag Number:**	16-18'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 12:10:00 PM
Lab ID:	0412018-004A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/2/2004**		Analyst: **PS**
Acetone	ND	0.031		mg/Kg-dry	1	12/5/2004
Benzene	ND	0.0062		mg/Kg-dry	1	12/5/2004
Bromodichloromethane	ND	0.0062		mg/Kg-dry	1	12/5/2004
Bromoform	ND	0.0062		mg/Kg-dry	1	12/5/2004
Bromomethane	ND	0.012		mg/Kg-dry	1	12/5/2004
2-Butanone	ND	0.012		mg/Kg-dry	1	12/5/2004
Carbon disulfide	ND	0.0062		mg/Kg-dry	1	12/5/2004
Carbon tetrachloride	ND	0.0062		mg/Kg-dry	1	12/5/2004
Chlorobenzene	ND	0.0062		mg/Kg-dry	1	12/5/2004
Chloroethane	ND	0.012		mg/Kg-dry	1	12/5/2004
Chloroform	ND	0.0062		mg/Kg-dry	1	12/5/2004
Chloromethane	ND	0.0062		mg/Kg-dry	1	12/5/2004
Dibromochloromethane	ND	0.0062		mg/Kg-dry	1	12/5/2004
1,1-Dichloroethane	ND	0.0062		mg/Kg-dry	1	12/5/2004
1,2-Dichloroethane	ND	0.0062		mg/Kg-dry	1	12/5/2004
1,1-Dichloroethene	ND	0.0062		mg/Kg-dry	1	12/5/2004
cis-1,2-Dichloroethene	ND	0.0062		mg/Kg-dry	1	12/5/2004
trans-1,2-Dichloroethene	ND	0.0062		mg/Kg-dry	1	12/5/2004
1,2-Dichloropropane	ND	0.0062		mg/Kg-dry	1	12/5/2004
cis-1,3-Dichloropropene	ND	0.0062		mg/Kg-dry	1	12/5/2004
trans-1,3-Dichloropropene	ND	0.0062		mg/Kg-dry	1	12/5/2004
Ethylbenzene	ND	0.0062		mg/Kg-dry	1	12/5/2004
2-Hexanone	ND	0.012		mg/Kg-dry	1	12/5/2004
4-Methyl-2-pentanone	ND	0.012		mg/Kg-dry	1	12/5/2004
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/5/2004
Methyl tert-butyl ether	ND	0.0062		mg/Kg-dry	1	12/5/2004
Styrene	ND	0.0062		mg/Kg-dry	1	12/5/2004
1,1,2,2-Tetrachloroethane	ND	0.0062		mg/Kg-dry	1	12/5/2004
Tetrachloroethene	ND	0.0062		mg/Kg-dry	1	12/5/2004
Toluene	ND	0.0062		mg/Kg-dry	1	12/5/2004
1,1,1-Trichloroethane	ND	0.0062		mg/Kg-dry	1	12/5/2004
1,1,2-Trichloroethane	ND	0.0062		mg/Kg-dry	1	12/5/2004
Trichloroethene	ND	0.0062		mg/Kg-dry	1	12/5/2004
Vinyl chloride	ND	0.0062		mg/Kg-dry	1	12/5/2004
Xylenes, Total	ND	0.012		mg/Kg-dry	1	12/5/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB46-002
Lab Order:	0412018	**Tag Number:**	16-18'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 12:10:00 PM
Lab ID:	0412018-004B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/6/2004**		Analyst: **JF**
TPH (Gasoline)	ND	24	*	mg/Kg-dry	1	12/7/2004
TPH (Diesel)	ND	24	*	mg/Kg-dry	1	12/7/2004
TPH (Oil)	ND	24	*	mg/Kg-dry	1	12/7/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **VS**
Acenaphthene	0.17	0.031		mg/Kg-dry	1	12/5/2004
Acenaphthylene	0.033	0.031		mg/Kg-dry	1	12/5/2004
Anthracene	0.19	0.031		mg/Kg-dry	1	12/5/2004
Benz(a)anthracene	0.17	0.031		mg/Kg-dry	1	12/5/2004
Benzo(b)fluoranthene	0.075	0.031		mg/Kg-dry	1	12/5/2004
Benzo(k)fluoranthene	0.12	0.031		mg/Kg-dry	1	12/5/2004
Benzo(g,h,i)perylene	0.046	0.031		mg/Kg-dry	1	12/5/2004
Benzo(a)pyrene	0.086	0.031		mg/Kg-dry	1	12/5/2004
Chrysene	0.2	0.031		mg/Kg-dry	1	12/5/2004
Dibenz(a,h)anthracene	ND	0.031		mg/Kg-dry	1	12/5/2004
Fluoranthene	0.42	0.31		mg/Kg-dry	10	12/6/2004
Fluorene	0.13	0.031		mg/Kg-dry	1	12/5/2004
Indeno(1,2,3-cd)pyrene	0.035	0.031		mg/Kg-dry	1	12/5/2004
Naphthalene	0.4	0.31		mg/Kg-dry	10	12/6/2004
Phenanthrene	0.6	0.31		mg/Kg-dry	10	12/6/2004
Pyrene	0.52	0.31		mg/Kg-dry	10	12/6/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.42		mg/Kg-dry	1	12/7/2004
Bis(2-chloroethyl)ether	ND	0.42		mg/Kg-dry	1	12/7/2004
Bis(2-ethylhexyl)phthalate	ND	0.42		mg/Kg-dry	1	12/7/2004
4-Bromophenyl phenyl ether	ND	0.42		mg/Kg-dry	1	12/7/2004
Butyl benzyl phthalate	ND	0.42		mg/Kg-dry	1	12/7/2004
Carbazole	ND	0.42		mg/Kg-dry	1	12/7/2004
4-Chloro-3-methylphenol	ND	0.42		mg/Kg-dry	1	12/7/2004
4-Chloroaniline	ND	0.42		mg/Kg-dry	1	12/7/2004
2-Chloronaphthalene	ND	0.42		mg/Kg-dry	1	12/7/2004
2-Chlorophenol	ND	0.42		mg/Kg-dry	1	12/7/2004
4-Chlorophenyl phenyl ether	ND	0.42		mg/Kg-dry	1	12/7/2004
Dibenzofuran	ND	0.42		mg/Kg-dry	1	12/7/2004
1,2-Dichlorobenzene	ND	0.42		mg/Kg-dry	1	12/7/2004
1,3-Dichlorobenzene	ND	0.42		mg/Kg-dry	1	12/7/2004
1,4-Dichlorobenzene	ND	0.42		mg/Kg-dry	1	12/7/2004
3,3´-Dichlorobenzidine	ND	0.83		mg/Kg-dry	1	12/7/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB46-002
Lab Order:	0412018	**Tag Number:**	16-18'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 12:10:00 PM
Lab ID:	0412018-004B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.42		mg/Kg-dry	1	12/7/2004
Diethyl phthalate	ND	0.42		mg/Kg-dry	1	12/7/2004
Dimethyl phthalate	ND	0.42		mg/Kg-dry	1	12/7/2004
Di-n-butyl phthalate	ND	0.42		mg/Kg-dry	1	12/7/2004
2,4-Dimethylphenol	ND	0.42		mg/Kg-dry	1	12/7/2004
4,6-Dinitro-2-methylphenol	ND	2		mg/Kg-dry	1	12/7/2004
2,4-Dinitrophenol	ND	2		mg/Kg-dry	1	12/7/2004
2,4-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/7/2004
2,6-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/7/2004
Di-n-octyl phthalate	ND	0.42		mg/Kg-dry	1	12/7/2004
Hexachlorobenzene	ND	0.42		mg/Kg-dry	1	12/7/2004
Hexachlorobutadiene	ND	0.42		mg/Kg-dry	1	12/7/2004
Hexachlorocyclopentadiene	ND	0.42		mg/Kg-dry	1	12/7/2004
Hexachloroethane	ND	0.42		mg/Kg-dry	1	12/7/2004
Isophorone	ND	0.42		mg/Kg-dry	1	12/7/2004
2-Methylnaphthalene	ND	0.42		mg/Kg-dry	1	12/7/2004
2-Methylphenol	ND	0.42		mg/Kg-dry	1	12/7/2004
4-Methylphenol	ND	0.42		mg/Kg-dry	1	12/7/2004
2-Nitroaniline	ND	2		mg/Kg-dry	1	12/7/2004
3-Nitroaniline	ND	2		mg/Kg-dry	1	12/7/2004
4-Nitroaniline	ND	2		mg/Kg-dry	1	12/7/2004
Nitrobenzene	ND	0.21		mg/Kg-dry	1	12/7/2004
2-Nitrophenol	ND	0.42		mg/Kg-dry	1	12/7/2004
4-Nitrophenol	ND	2		mg/Kg-dry	1	12/7/2004
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	12/7/2004
N-Nitrosodiphenylamine	ND	0.42		mg/Kg-dry	1	12/7/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.42		mg/Kg-dry	1	12/7/2004
Pentachlorophenol	ND	2		mg/Kg-dry	1	12/7/2004
Phenol	ND	0.42		mg/Kg-dry	1	12/7/2004
1,2,4-Trichlorobenzene	ND	0.42		mg/Kg-dry	1	12/7/2004
2,4,5-Trichlorophenol	ND	0.83		mg/Kg-dry	1	12/7/2004
2,4,6-Trichlorophenol	ND	0.42		mg/Kg-dry	1	12/7/2004
Percent Moisture	**D2974**			Prep Date: **12/2/2004**		Analyst: **RW**
Percent Moisture	22.29	0.01	*	wt%	1	12/3/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB48-001
Lab Order:	0412018	**Tag Number:**	8-10'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 2:35:00 PM
Lab ID:	0412018-005A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/2/2004**		Analyst: **PS**
Acetone	ND	0.036		mg/Kg-dry	1	12/5/2004
Benzene	ND	0.0072		mg/Kg-dry	1	12/5/2004
Bromodichloromethane	ND	0.0072		mg/Kg-dry	1	12/5/2004
Bromoform	ND	0.0072		mg/Kg-dry	1	12/5/2004
Bromomethane	ND	0.014		mg/Kg-dry	1	12/5/2004
2-Butanone	ND	0.014		mg/Kg-dry	1	12/5/2004
Carbon disulfide	ND	0.0072		mg/Kg-dry	1	12/5/2004
Carbon tetrachloride	ND	0.0072		mg/Kg-dry	1	12/5/2004
Chlorobenzene	ND	0.0072		mg/Kg-dry	1	12/5/2004
Chloroethane	ND	0.014		mg/Kg-dry	1	12/5/2004
Chloroform	ND	0.0072		mg/Kg-dry	1	12/5/2004
Chloromethane	ND	0.0072		mg/Kg-dry	1	12/5/2004
Dibromochloromethane	ND	0.0072		mg/Kg-dry	1	12/5/2004
1,1-Dichloroethane	ND	0.0072		mg/Kg-dry	1	12/5/2004
1,2-Dichloroethane	ND	0.0072		mg/Kg-dry	1	12/5/2004
1,1-Dichloroethene	ND	0.0072		mg/Kg-dry	1	12/5/2004
cis-1,2-Dichloroethene	ND	0.0072		mg/Kg-dry	1	12/5/2004
trans-1,2-Dichloroethene	ND	0.0072		mg/Kg-dry	1	12/5/2004
1,2-Dichloropropane	ND	0.0072		mg/Kg-dry	1	12/5/2004
cis-1,3-Dichloropropene	ND	0.0072		mg/Kg-dry	1	12/5/2004
trans-1,3-Dichloropropene	ND	0.0072		mg/Kg-dry	1	12/5/2004
Ethylbenzene	ND	0.0072		mg/Kg-dry	1	12/5/2004
2-Hexanone	ND	0.014		mg/Kg-dry	1	12/5/2004
4-Methyl-2-pentanone	ND	0.014		mg/Kg-dry	1	12/5/2004
Methylene chloride	ND	0.014		mg/Kg-dry	1	12/5/2004
Methyl tert-butyl ether	ND	0.0072		mg/Kg-dry	1	12/5/2004
Styrene	ND	0.0072		mg/Kg-dry	1	12/5/2004
1,1,2,2-Tetrachloroethane	ND	0.0072		mg/Kg-dry	1	12/5/2004
Tetrachloroethene	ND	0.0072		mg/Kg-dry	1	12/5/2004
Toluene	ND	0.0072		mg/Kg-dry	1	12/5/2004
1,1,1-Trichloroethane	ND	0.0072		mg/Kg-dry	1	12/5/2004
1,1,2-Trichloroethane	ND	0.0072		mg/Kg-dry	1	12/5/2004
Trichloroethene	ND	0.0072		mg/Kg-dry	1	12/5/2004
Vinyl chloride	ND	0.0072		mg/Kg-dry	1	12/5/2004
Xylenes, Total	ND	0.014		mg/Kg-dry	1	12/5/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB48-001
Lab Order:	0412018	**Tag Number:**	8-10'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 2:35:00 PM
Lab ID:	0412018-005B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/6/2004**		Analyst: **JF**
TPH (Gasoline)	ND	25	*	mg/Kg-dry	1	12/7/2004
TPH (Diesel)	83	25	*	mg/Kg-dry	1	12/7/2004
TPH (Oil)	270	25	*	mg/Kg-dry	1	12/7/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **VS**
Acenaphthene	5.9	3.4		mg/Kg-dry	100	12/7/2004
Acenaphthylene	0.99	0.34		mg/Kg-dry	10	12/6/2004
Anthracene	9.5	3.4		mg/Kg-dry	100	12/7/2004
Benz(a)anthracene	8.6	3.4		mg/Kg-dry	100	12/7/2004
Benzo(b)fluoranthene	5.5	3.4		mg/Kg-dry	100	12/7/2004
Benzo(k)fluoranthene	6.2	3.4		mg/Kg-dry	100	12/7/2004
Benzo(g,h,i)perylene	5.5	3.4		mg/Kg-dry	100	12/7/2004
Benzo(a)pyrene	9.8	3.4		mg/Kg-dry	100	12/7/2004
Chrysene	8.1	3.4		mg/Kg-dry	100	12/7/2004
Dibenz(a,h)anthracene	1.2	0.34		mg/Kg-dry	10	12/6/2004
Fluoranthene	20	3.4		mg/Kg-dry	100	12/7/2004
Fluorene	3.5	3.4		mg/Kg-dry	100	12/7/2004
Indeno(1,2,3-cd)pyrene	4.2	3.4		mg/Kg-dry	100	12/7/2004
Naphthalene	5.3	3.4		mg/Kg-dry	100	12/7/2004
Phenanthrene	21	3.4		mg/Kg-dry	100	12/7/2004
Pyrene	22	3.4		mg/Kg-dry	100	12/7/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.44		mg/Kg-dry	1	12/7/2004
Bis(2-chloroethyl)ether	ND	0.44		mg/Kg-dry	1	12/7/2004
Bis(2-ethylhexyl)phthalate	ND	0.44		mg/Kg-dry	1	12/7/2004
4-Bromophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	12/7/2004
Butyl benzyl phthalate	ND	0.44		mg/Kg-dry	1	12/7/2004
Carbazole	0.57	0.44		mg/Kg-dry	1	12/7/2004
4-Chloro-3-methylphenol	ND	0.44		mg/Kg-dry	1	12/7/2004
4-Chloroaniline	ND	0.44		mg/Kg-dry	1	12/7/2004
2-Chloronaphthalene	ND	0.44		mg/Kg-dry	1	12/7/2004
2-Chlorophenol	ND	0.44		mg/Kg-dry	1	12/7/2004
4-Chlorophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	12/7/2004
Dibenzofuran	1.5	0.44		mg/Kg-dry	1	12/7/2004
1,2-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	12/7/2004
1,3-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	12/7/2004
1,4-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	12/7/2004
3,3´-Dichlorobenzidine	ND	0.89		mg/Kg-dry	1	12/7/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB48-001
Lab Order:	0412018	**Tag Number:**	8-10'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 2:35:00 PM
Lab ID:	0412018-005B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.44		mg/Kg-dry	1	12/7/2004
Diethyl phthalate	ND	0.44		mg/Kg-dry	1	12/7/2004
Dimethyl phthalate	ND	0.44		mg/Kg-dry	1	12/7/2004
Di-n-butyl phthalate	ND	0.44		mg/Kg-dry	1	12/7/2004
2,4-Dimethylphenol	ND	0.44		mg/Kg-dry	1	12/7/2004
4,6-Dinitro-2-methylphenol	ND	2.2		mg/Kg-dry	1	12/7/2004
2,4-Dinitrophenol	ND	2.2		mg/Kg-dry	1	12/7/2004
2,4-Dinitrotoluene	ND	0.23		mg/Kg-dry	1	12/7/2004
2,6-Dinitrotoluene	ND	0.23		mg/Kg-dry	1	12/7/2004
Di-n-octyl phthalate	ND	0.44		mg/Kg-dry	1	12/7/2004
Hexachlorobenzene	ND	0.44		mg/Kg-dry	1	12/7/2004
Hexachlorobutadiene	ND	0.44		mg/Kg-dry	1	12/7/2004
Hexachlorocyclopentadiene	ND	0.44		mg/Kg-dry	1	12/7/2004
Hexachloroethane	ND	0.44		mg/Kg-dry	1	12/7/2004
Isophorone	ND	0.44		mg/Kg-dry	1	12/7/2004
2-Methylnaphthalene	2.5	0.44		mg/Kg-dry	1	12/7/2004
2-Methylphenol	ND	0.44		mg/Kg-dry	1	12/7/2004
4-Methylphenol	ND	0.44		mg/Kg-dry	1	12/7/2004
2-Nitroaniline	ND	2.2		mg/Kg-dry	1	12/7/2004
3-Nitroaniline	ND	2.2		mg/Kg-dry	1	12/7/2004
4-Nitroaniline	ND	2.2		mg/Kg-dry	1	12/7/2004
Nitrobenzene	ND	0.23		mg/Kg-dry	1	12/7/2004
2-Nitrophenol	ND	0.44		mg/Kg-dry	1	12/7/2004
4-Nitrophenol	ND	2.2		mg/Kg-dry	1	12/7/2004
N-Nitrosodi-n-propylamine	ND	0.23		mg/Kg-dry	1	12/7/2004
N-Nitrosodiphenylamine	ND	0.44		mg/Kg-dry	1	12/7/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.44		mg/Kg-dry	1	12/7/2004
Pentachlorophenol	ND	2.2		mg/Kg-dry	1	12/7/2004
Phenol	ND	0.44		mg/Kg-dry	1	12/7/2004
1,2,4-Trichlorobenzene	ND	0.44		mg/Kg-dry	1	12/7/2004
2,4,5-Trichlorophenol	ND	0.89		mg/Kg-dry	1	12/7/2004
2,4,6-Trichlorophenol	ND	0.44		mg/Kg-dry	1	12/7/2004
Percent Moisture	**D2974**			Prep Date: **12/2/2004**		Analyst: **RW**
Percent Moisture	26.50	0.01	*	wt%	1	12/3/2004

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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB48-002
Lab Order:	0412018	**Tag Number:**	18-20'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 2:45:00 PM
Lab ID:	0412018-006A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/2/2004**		Analyst: **PS**
Acetone	ND	0.03		mg/Kg-dry	1	12/5/2004
Benzene	ND	0.0059		mg/Kg-dry	1	12/5/2004
Bromodichloromethane	ND	0.0059		mg/Kg-dry	1	12/5/2004
Bromoform	ND	0.0059		mg/Kg-dry	1	12/5/2004
Bromomethane	ND	0.012		mg/Kg-dry	1	12/5/2004
2-Butanone	ND	0.012		mg/Kg-dry	1	12/5/2004
Carbon disulfide	ND	0.0059		mg/Kg-dry	1	12/5/2004
Carbon tetrachloride	ND	0.0059		mg/Kg-dry	1	12/5/2004
Chlorobenzene	ND	0.0059		mg/Kg-dry	1	12/5/2004
Chloroethane	ND	0.012		mg/Kg-dry	1	12/5/2004
Chloroform	ND	0.0059		mg/Kg-dry	1	12/5/2004
Chloromethane	ND	0.0059		mg/Kg-dry	1	12/5/2004
Dibromochloromethane	ND	0.0059		mg/Kg-dry	1	12/5/2004
1,1-Dichloroethane	ND	0.0059		mg/Kg-dry	1	12/5/2004
1,2-Dichloroethane	ND	0.0059		mg/Kg-dry	1	12/5/2004
1,1-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/5/2004
cis-1,2-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/5/2004
trans-1,2-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/5/2004
1,2-Dichloropropane	ND	0.0059		mg/Kg-dry	1	12/5/2004
cis-1,3-Dichloropropene	ND	0.0059		mg/Kg-dry	1	12/5/2004
trans-1,3-Dichloropropene	ND	0.0059		mg/Kg-dry	1	12/5/2004
Ethylbenzene	ND	0.0059		mg/Kg-dry	1	12/5/2004
2-Hexanone	ND	0.012		mg/Kg-dry	1	12/5/2004
4-Methyl-2-pentanone	ND	0.012		mg/Kg-dry	1	12/5/2004
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/5/2004
Methyl tert-butyl ether	ND	0.0059		mg/Kg-dry	1	12/5/2004
Styrene	ND	0.0059		mg/Kg-dry	1	12/5/2004
1,1,2,2-Tetrachloroethane	ND	0.0059		mg/Kg-dry	1	12/5/2004
Tetrachloroethene	ND	0.0059		mg/Kg-dry	1	12/5/2004
Toluene	ND	0.0059		mg/Kg-dry	1	12/5/2004
1,1,1-Trichloroethane	ND	0.0059		mg/Kg-dry	1	12/5/2004
1,1,2-Trichloroethane	ND	0.0059		mg/Kg-dry	1	12/5/2004
Trichloroethene	ND	0.0059		mg/Kg-dry	1	12/5/2004
Vinyl chloride	ND	0.0059		mg/Kg-dry	1	12/5/2004
Xylenes, Total	ND	0.012		mg/Kg-dry	1	12/5/2004

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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB48-002
Lab Order:	0412018	**Tag Number:**	18-20'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 2:45:00 PM
Lab ID:	0412018-006B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/6/2004**		Analyst: **JF**
TPH (Gasoline)	ND	24	*	mg/Kg-dry	1	12/7/2004
TPH (Diesel)	ND	24	*	mg/Kg-dry	1	12/7/2004
TPH (Oil)	ND	24	*	mg/Kg-dry	1	12/7/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **VS**
Acenaphthene	0.41	0.31		mg/Kg-dry	10	12/6/2004
Acenaphthylene	ND	0.031		mg/Kg-dry	1	12/5/2004
Anthracene	0.16	0.031		mg/Kg-dry	1	12/5/2004
Benz(a)anthracene	0.11	0.031		mg/Kg-dry	1	12/5/2004
Benzo(b)fluoranthene	0.063	0.031		mg/Kg-dry	1	12/5/2004
Benzo(k)fluoranthene	0.082	0.031		mg/Kg-dry	1	12/5/2004
Benzo(g,h,i)perylene	0.034	0.031		mg/Kg-dry	1	12/5/2004
Benzo(a)pyrene	0.088	0.031		mg/Kg-dry	1	12/5/2004
Chrysene	0.14	0.031		mg/Kg-dry	1	12/5/2004
Dibenz(a,h)anthracene	ND	0.031		mg/Kg-dry	1	12/5/2004
Fluoranthene	0.22	0.031		mg/Kg-dry	1	12/5/2004
Fluorene	0.26	0.031		mg/Kg-dry	1	12/5/2004
Indeno(1,2,3-cd)pyrene	ND	0.031		mg/Kg-dry	1	12/5/2004
Naphthalene	7.8	3.1		mg/Kg-dry	100	12/7/2004
Phenanthrene	0.52	0.31		mg/Kg-dry	10	12/6/2004
Pyrene	0.21	0.031		mg/Kg-dry	1	12/5/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.41		mg/Kg-dry	1	12/6/2004
Bis(2-chloroethyl)ether	ND	0.41		mg/Kg-dry	1	12/6/2004
Bis(2-ethylhexyl)phthalate	ND	0.41		mg/Kg-dry	1	12/6/2004
4-Bromophenyl phenyl ether	ND	0.41		mg/Kg-dry	1	12/6/2004
Butyl benzyl phthalate	ND	0.41		mg/Kg-dry	1	12/6/2004
Carbazole	ND	0.41		mg/Kg-dry	1	12/6/2004
4-Chloro-3-methylphenol	ND	0.41		mg/Kg-dry	1	12/6/2004
4-Chloroaniline	ND	0.41		mg/Kg-dry	1	12/6/2004
2-Chloronaphthalene	ND	0.41		mg/Kg-dry	1	12/6/2004
2-Chlorophenol	ND	0.41		mg/Kg-dry	1	12/6/2004
4-Chlorophenyl phenyl ether	ND	0.41		mg/Kg-dry	1	12/6/2004
Dibenzofuran	ND	0.41		mg/Kg-dry	1	12/6/2004
1,2-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	12/6/2004
1,3-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	12/6/2004
1,4-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	12/6/2004
3,3´-Dichlorobenzidine	ND	0.82		mg/Kg-dry	1	12/6/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB48-002
Lab Order:	0412018	**Tag Number:**	18-20'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 2:45:00 PM
Lab ID:	0412018-006B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.41		mg/Kg-dry	1	12/6/2004
Diethyl phthalate	ND	0.41		mg/Kg-dry	1	12/6/2004
Dimethyl phthalate	ND	0.41		mg/Kg-dry	1	12/6/2004
Di-n-butyl phthalate	ND	0.41		mg/Kg-dry	1	12/6/2004
2,4-Dimethylphenol	ND	0.41		mg/Kg-dry	1	12/6/2004
4,6-Dinitro-2-methylphenol	ND	2		mg/Kg-dry	1	12/6/2004
2,4-Dinitrophenol	ND	2		mg/Kg-dry	1	12/6/2004
2,4-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/6/2004
2,6-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/6/2004
Di-n-octyl phthalate	ND	0.41		mg/Kg-dry	1	12/6/2004
Hexachlorobenzene	ND	0.41		mg/Kg-dry	1	12/6/2004
Hexachlorobutadiene	ND	0.41		mg/Kg-dry	1	12/6/2004
Hexachlorocyclopentadiene	ND	0.41		mg/Kg-dry	1	12/6/2004
Hexachloroethane	ND	0.41		mg/Kg-dry	1	12/6/2004
Isophorone	ND	0.41		mg/Kg-dry	1	12/6/2004
2-Methylnaphthalene	1.1	0.41		mg/Kg-dry	1	12/6/2004
2-Methylphenol	ND	0.41		mg/Kg-dry	1	12/6/2004
4-Methylphenol	ND	0.41		mg/Kg-dry	1	12/6/2004
2-Nitroaniline	ND	2		mg/Kg-dry	1	12/6/2004
3-Nitroaniline	ND	2		mg/Kg-dry	1	12/6/2004
4-Nitroaniline	ND	2		mg/Kg-dry	1	12/6/2004
Nitrobenzene	ND	0.21		mg/Kg-dry	1	12/6/2004
2-Nitrophenol	ND	0.41		mg/Kg-dry	1	12/6/2004
4-Nitrophenol	ND	2		mg/Kg-dry	1	12/6/2004
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	12/6/2004
N-Nitrosodiphenylamine	ND	0.41		mg/Kg-dry	1	12/6/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.41		mg/Kg-dry	1	12/6/2004
Pentachlorophenol	ND	2		mg/Kg-dry	1	12/6/2004
Phenol	ND	0.41		mg/Kg-dry	1	12/6/2004
1,2,4-Trichlorobenzene	ND	0.41		mg/Kg-dry	1	12/6/2004
2,4,5-Trichlorophenol	ND	0.82		mg/Kg-dry	1	12/6/2004
2,4,6-Trichlorophenol	ND	0.41		mg/Kg-dry	1	12/6/2004
Percent Moisture	**D2974**			Prep Date: **12/2/2004**		Analyst: **RW**
Percent Moisture	20.65	0.01	*	wt%	1	12/3/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB49-001
Lab Order:	0412018	**Tag Number:**	
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 4:00:00 PM
Lab ID:	0412018-007A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/2/2004**		Analyst: **PS**
Acetone	ND	0.029		mg/Kg-dry	1	12/5/2004
Benzene	ND	0.0059		mg/Kg-dry	1	12/5/2004
Bromodichloromethane	ND	0.0059		mg/Kg-dry	1	12/5/2004
Bromoform	ND	0.0059		mg/Kg-dry	1	12/5/2004
Bromomethane	ND	0.012		mg/Kg-dry	1	12/5/2004
2-Butanone	ND	0.012		mg/Kg-dry	1	12/5/2004
Carbon disulfide	ND	0.0059		mg/Kg-dry	1	12/5/2004
Carbon tetrachloride	ND	0.0059		mg/Kg-dry	1	12/5/2004
Chlorobenzene	ND	0.0059		mg/Kg-dry	1	12/5/2004
Chloroethane	ND	0.012		mg/Kg-dry	1	12/5/2004
Chloroform	ND	0.0059		mg/Kg-dry	1	12/5/2004
Chloromethane	ND	0.0059		mg/Kg-dry	1	12/5/2004
Dibromochloromethane	ND	0.0059		mg/Kg-dry	1	12/5/2004
1,1-Dichloroethane	ND	0.0059		mg/Kg-dry	1	12/5/2004
1,2-Dichloroethane	ND	0.0059		mg/Kg-dry	1	12/5/2004
1,1-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/5/2004
cis-1,2-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/5/2004
trans-1,2-Dichloroethene	ND	0.0059		mg/Kg-dry	1	12/5/2004
1,2-Dichloropropane	ND	0.0059		mg/Kg-dry	1	12/5/2004
cis-1,3-Dichloropropene	ND	0.0059		mg/Kg-dry	1	12/5/2004
trans-1,3-Dichloropropene	ND	0.0059		mg/Kg-dry	1	12/5/2004
Ethylbenzene	ND	0.0059		mg/Kg-dry	1	12/5/2004
2-Hexanone	ND	0.012		mg/Kg-dry	1	12/5/2004
4-Methyl-2-pentanone	ND	0.012		mg/Kg-dry	1	12/5/2004
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/5/2004
Methyl tert-butyl ether	ND	0.0059		mg/Kg-dry	1	12/5/2004
Styrene	ND	0.0059		mg/Kg-dry	1	12/5/2004
1,1,2,2-Tetrachloroethane	ND	0.0059		mg/Kg-dry	1	12/5/2004
Tetrachloroethene	ND	0.0059		mg/Kg-dry	1	12/5/2004
Toluene	ND	0.0059		mg/Kg-dry	1	12/5/2004
1,1,1-Trichloroethane	ND	0.0059		mg/Kg-dry	1	12/5/2004
1,1,2-Trichloroethane	ND	0.0059		mg/Kg-dry	1	12/5/2004
Trichloroethene	ND	0.0059		mg/Kg-dry	1	12/5/2004
Vinyl chloride	ND	0.0059		mg/Kg-dry	1	12/5/2004
Xylenes, Total	ND	0.012		mg/Kg-dry	1	12/5/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB49-001
Lab Order:	0412018	**Tag Number:**	
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 4:00:00 PM
Lab ID:	0412018-007B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/6/2004**		Analyst: **JF**
TPH (Gasoline)	ND	25	*	mg/Kg-dry	1	12/7/2004
TPH (Diesel)	ND	25	*	mg/Kg-dry	1	12/7/2004
TPH (Oil)	ND	25	*	mg/Kg-dry	1	12/7/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **VS**
Acenaphthene	0.32	0.032		mg/Kg-dry	1	12/6/2004
Acenaphthylene	0.19	0.032		mg/Kg-dry	1	12/6/2004
Anthracene	0.44	0.32		mg/Kg-dry	10	12/6/2004
Benz(a)anthracene	1	0.32		mg/Kg-dry	10	12/6/2004
Benzo(b)fluoranthene	0.78	0.32		mg/Kg-dry	10	12/6/2004
Benzo(k)fluoranthene	0.74	0.32		mg/Kg-dry	10	12/6/2004
Benzo(g,h,i)perylene	0.68	0.32		mg/Kg-dry	10	12/6/2004
Benzo(a)pyrene	1	0.32		mg/Kg-dry	10	12/6/2004
Chrysene	1	0.32		mg/Kg-dry	10	12/6/2004
Dibenz(a,h)anthracene	0.11	0.032		mg/Kg-dry	1	12/6/2004
Fluoranthene	1.9	0.32		mg/Kg-dry	10	12/6/2004
Fluorene	0.24	0.032		mg/Kg-dry	1	12/6/2004
Indeno(1,2,3-cd)pyrene	0.55	0.32		mg/Kg-dry	10	12/6/2004
Naphthalene	0.2	0.032		mg/Kg-dry	1	12/6/2004
Phenanthrene	1.3	0.32		mg/Kg-dry	10	12/6/2004
Pyrene	2.1	0.32		mg/Kg-dry	10	12/6/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.42		mg/Kg-dry	1	12/7/2004
Bis(2-chloroethyl)ether	ND	0.42		mg/Kg-dry	1	12/7/2004
Bis(2-ethylhexyl)phthalate	ND	0.42		mg/Kg-dry	1	12/7/2004
4-Bromophenyl phenyl ether	ND	0.42		mg/Kg-dry	1	12/7/2004
Butyl benzyl phthalate	ND	0.42		mg/Kg-dry	1	12/7/2004
Carbazole	ND	0.42		mg/Kg-dry	1	12/7/2004
4-Chloro-3-methylphenol	ND	0.42		mg/Kg-dry	1	12/7/2004
4-Chloroaniline	ND	0.42		mg/Kg-dry	1	12/7/2004
2-Chloronaphthalene	ND	0.42		mg/Kg-dry	1	12/7/2004
2-Chlorophenol	ND	0.42		mg/Kg-dry	1	12/7/2004
4-Chlorophenyl phenyl ether	ND	0.42		mg/Kg-dry	1	12/7/2004
Dibenzofuran	ND	0.42		mg/Kg-dry	1	12/7/2004
1,2-Dichlorobenzene	ND	0.42		mg/Kg-dry	1	12/7/2004
1,3-Dichlorobenzene	ND	0.42		mg/Kg-dry	1	12/7/2004
1,4-Dichlorobenzene	ND	0.42		mg/Kg-dry	1	12/7/2004
3,3´-Dichlorobenzidine	ND	0.84		mg/Kg-dry	1	12/7/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB49-001
Lab Order:	0412018	**Tag Number:**	
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	11/30/2004 4:00:00 PM
Lab ID:	0412018-007B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.42		mg/Kg-dry	1	12/7/2004
Diethyl phthalate	ND	0.42		mg/Kg-dry	1	12/7/2004
Dimethyl phthalate	ND	0.42		mg/Kg-dry	1	12/7/2004
Di-n-butyl phthalate	ND	0.42		mg/Kg-dry	1	12/7/2004
2,4-Dimethylphenol	ND	0.42		mg/Kg-dry	1	12/7/2004
4,6-Dinitro-2-methylphenol	ND	2		mg/Kg-dry	1	12/7/2004
2,4-Dinitrophenol	ND	2		mg/Kg-dry	1	12/7/2004
2,4-Dinitrotoluene	ND	0.22		mg/Kg-dry	1	12/7/2004
2,6-Dinitrotoluene	ND	0.22		mg/Kg-dry	1	12/7/2004
Di-n-octyl phthalate	ND	0.42		mg/Kg-dry	1	12/7/2004
Hexachlorobenzene	ND	0.42		mg/Kg-dry	1	12/7/2004
Hexachlorobutadiene	ND	0.42		mg/Kg-dry	1	12/7/2004
Hexachlorocyclopentadiene	ND	0.42		mg/Kg-dry	1	12/7/2004
Hexachloroethane	ND	0.42		mg/Kg-dry	1	12/7/2004
Isophorone	ND	0.42		mg/Kg-dry	1	12/7/2004
2-Methylnaphthalene	ND	0.42		mg/Kg-dry	1	12/7/2004
2-Methylphenol	ND	0.42		mg/Kg-dry	1	12/7/2004
4-Methylphenol	ND	0.42		mg/Kg-dry	1	12/7/2004
2-Nitroaniline	ND	2		mg/Kg-dry	1	12/7/2004
3-Nitroaniline	ND	2		mg/Kg-dry	1	12/7/2004
4-Nitroaniline	ND	2		mg/Kg-dry	1	12/7/2004
Nitrobenzene	ND	0.22		mg/Kg-dry	1	12/7/2004
2-Nitrophenol	ND	0.42		mg/Kg-dry	1	12/7/2004
4-Nitrophenol	ND	2		mg/Kg-dry	1	12/7/2004
N-Nitrosodi-n-propylamine	ND	0.22		mg/Kg-dry	1	12/7/2004
N-Nitrosodiphenylamine	ND	0.42		mg/Kg-dry	1	12/7/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.42		mg/Kg-dry	1	12/7/2004
Pentachlorophenol	ND	2		mg/Kg-dry	1	12/7/2004
Phenol	ND	0.42		mg/Kg-dry	1	12/7/2004
1,2,4-Trichlorobenzene	ND	0.42		mg/Kg-dry	1	12/7/2004
2,4,5-Trichlorophenol	ND	0.84		mg/Kg-dry	1	12/7/2004
2,4,6-Trichlorophenol	ND	0.42		mg/Kg-dry	1	12/7/2004
Percent Moisture	**D2974**			Prep Date: **12/2/2004**		Analyst: **RW**
Percent Moisture	23.18	0.01	*	wt%	1	12/3/2004

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

Burns & McDonnell SINCE 1898

Request for Chemical Analysis and Chain of Custody Record

Burns & McDonnell Engineering
2601 W. 22nd St
Oak Brook, Illinois 60523
Phone: (630) 990-0300 Fax: (630) 990-0301

Attention: Diane Saftic

Laboratory: STAT
Address: 2201 West Campbell park
City/State/Zip: Chicago, IL 60612
Telephone: (312) 563-0371

Document Control No: WSS-002-2004
Lab. Reference No. or Episode No.: 0412018

Project Number: 32088
Site Name: Willow Street Station - General Iron

Sample Number			Sample Event		Sample Depth (in feet)		Sample Collected		Sample Type: Matrix			Number of Containers	Parameter/Method Code: TCL VOCs (8240)	TCL SVOCs (8270) SIM	TPH (8015)	Remarks
Group or SWMU Name	Sample Point	Sample Designator	Round	Year	From	To	Date	Time	Liquid	Solid	Gas					
WSS	SB57	001	1	2004	10	12	11-30-04	0825		X		4	X	X	X	PID=0.0ppm 001
WSS	SB57	002	1	2004	16	18	11/30/04	0835		X		4	X	X	X	PID=0.0 ppm 002
WSS	SB46	001	1	2004	10	12	11/30/04	1200		X		4	X	X	X	PID=0.0 ppm 003
WSS	SB46	002	1	2004	16	18	11/30/04	1210		X		4	X	X	X	PID=0.0 ppm 004
WSS	SB48	001	1	2004	8	10	11/30/04	1435		X		4	X	X	X	PID=0.0ppm 005
WSS	SB48	002	1	2004	18	20	11/30/04	1445		X		4	X	X	X	PID=0.0 ppm 006
WSS	SB49	001	1	2004			11/30/04	1600		X		4	X	X	X	PID=0.0 ppm 007
WSS	SB49	002	1	2004			11/30/04	1615		X		4	X	X	X	PID=0.0ppm 008
~~WSS~~	~~TB02~~								X			1	X			HCL 009

ALH 11/30/04

Page 24 of 44

Sampler (signature): Amy Hanrahan

Sampler (signature):

Custody Seal Number: WSS-002-2004-001, WSS-002-2004-002

Special Instructions: Standard TAT - 1 cooler

Relinquished By (signature): 1. Amy Hanrahan — Date/Time: 12/1/04 9:07 — Received By (signature): Sal Foam — Date/Time: 12-1-04 9:07

Relinquished By (signature): 2. [signature] — Date/Time: 12/1/04 11:24 — Received By (signature): [signature] — Date/Time: 12/1/04 11:24

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 5°

Laboratory Comments:

061301 Form WCD-KC1-CHI

STAT Analysis Corporation

Sample Receipt Checklist

Client Name **B&M**

Date and Time Received: **12/1/2004**

Work Order Numbe **0412018**

Received by: CDF

Checklist completed by: Jean Cost (Signature) 12/1/04 (Date)

Reviewed by: ac (Initials) 12/10/04 (Date)

Matrix:

Carrier name STAT Analysis

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☐	No ☑	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 5 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - Samples properly preserved/ pH checked?	Yes ☐	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted B+M Date contacted: 12/2/04 Person contacted AMY

Contacted by: @ Regarding: _____

Comments: Sample WSS-SB49-002 contained an empty 4oz jar.

Corrective Action WILL RE-SAMPLE

STAT Analysis Corporation

Date: 15-Dec-04

CLIENT: Burns & McDonnell
Work Order: 0412018
Project: 32088, Willow Street Station- General Iron
Test No: SW5035/8260B **Matrix:** S

QC SUMMARY REPORT
SURROGATE RECOVERIES

Sample ID	BR4FBZ	BZMED8	DBFM	DCA12D4				
VBLK120504a-3	93.3	101	97.4	106				
VLCS120504a-3	103	104	105	102				
VLCSD120504a-3	99.9	103	98.3	101				
0412018-001A	92.6	99.2	96.0	110				
0412018-002A	91.4	100	91.3	106				
0412018-003A	93.3	100	92.5	106				
0412018-004A	92.7	98.0	91.8	100				
0412018-005A	95.5	98.8	91.3	106				
0412018-006A	92.0	97.7	88.5	107				
0412018-007A	95.2	99.4	91.7	99.5				

Acronym		Surrogate	QC Limits
BR4FBZ	=	4-Bromofluorobenzene	63-110
BZMED8	=	Toluene-d8	85-110
DBFM	=	Dibromofluoromethane	83-119
DCA12D4	=	1,2-Dichloroethane-d4	84-129

*** Surrogate recovery outside acceptance limits**

1

STAT Analysis Corporation

Date: 15-Dec-04

CLIENT: Burns & McDonnell
Work Order: 0412018
Project: 32088, Willow Street Station- General Iron
Test No: SW8270C **Matrix:** S

QC SUMMARY REPORT
SURROGATE RECOVERIES

Sample ID	CLPH2D4	DCBZ12D4	NO2BZD5	PH246BR	PH2F	PHD5	PHEN2F	PHEND14
MB-12089-SVOC	73.1	67.0	81.0	82.4	75.3	84.4	69.8	81.7
LCS-12089-SVOC	74.3	69.0	83.7	75.0	78.0	86.6	71.9	80.2
0412056-006BMS	78.2	76.4	91.6	75.6	78.0	86.1	77.8	85.2
0412056-006BMSD	76.8	73.5	89.9	85.0	74.8	84.9	81.2	93.0
0412018-002B	80.6	77.4	97.8	77.3	82.4	94.7	85.0	104
0412018-006B	67.5	66.3	81.9	41.2	67.8	80.9	74.9	96.5
0412018-004B	66.9	65.3	81.0	42.0	68.2	82.9	73.1	96.7
0412018-007B	72.2	70.6	89.5	47.8	73.7	88.7	82.5	82.1
0412018-005B	70.8	63.7	82.3	81.1	66.1	81.2	75.8	78.9
0412018-001B	73.4	65.5	85.8	94.4	68.4	84.7	80.7	74.9
0412018-003B	79.7	75.2	94.0	92.5	74.4	90.2	86.9	89.6

Acronym		Surrogate	QC Limits
CLPH2D4	=	2-Chlorophenol-d4	20-130
DCBZ12D4	=	1,2-Dichlorobenzene-d4	20-130
NO2BZD5	=	Nitrobenzene-d5	23-120
PH246BR	=	2,4,6-Tribromophenol	19-122
PH2F	=	2-Fluorophenol	25-121
PHD5	=	Phenol-d5	24-113
PHEN2F	=	2-Fluorobiphenyl	30-115
PHEND14	=	4-Terphenyl-d14	18-137

*** Surrogate recovery outside acceptance limits**

1

Prep Start Date: **12/4/2004 9:15:43 A**
Prep End Date: **12/4/2004 3:02:26 P**

Prep Batch **12089** Prep Code: **3550_SVOC** Technician: **JT**

Prep Factor Units: **mL / Kg**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
0412018-001B	Soil		0.03011	0	0	1	33.212	12/4/2004	12/4/2004
0412018-002B	Soil		0.03062	0	0	1	32.658	12/4/2004	12/4/2004
0412018-003B	Soil		0.03061	0	0	1	32.669	12/4/2004	12/4/2004
0412018-004B	Soil		0.03069	0	0	1	32.584	12/4/2004	12/4/2004
0412018-005B	Soil		0.03029	0	0	1	33.014	12/4/2004	12/4/2004
0412018-006B	Soil		0.03043	0	0	1	32.862	12/4/2004	12/4/2004
0412018-007B	Soil		0.03062	0	0	1	32.658	12/4/2004	12/4/2004
0412027-001B	Soil		0.03084	0	0	1	32.425	12/4/2004	12/4/2004
0412027-002B	Soil		0.03055	0	0	1	32.733	12/4/2004	12/4/2004
0412027-003B	Soil		0.03036	0	0	1	32.938	12/4/2004	12/4/2004
0412027-004B	Soil		0.03037	0	0	1	32.927	12/4/2004	12/4/2004
0412056-001B	Soil		0.03074	0	0	1	32.531	12/4/2004	12/4/2004
0412056-002B	Soil		0.03081	0	0	1	32.457	12/4/2004	12/4/2004
0412056-003B	Soil		0.03026	0	0	1	33.047	12/4/2004	12/4/2004
0412056-005B	Soil		0.03028	0	0	1	33.025	12/4/2004	12/4/2004
0412056-006B	Soil		0.03052	0	0	1	32.765	12/4/2004	12/4/2004
0412056-006BMS	Soil		0.03069	0	0	1	32.584	12/4/2004	12/4/2004
0412056-006BMSD	Soil		0.03058	0	0	1	32.701	12/4/2004	12/4/2004
0412056-007B	Soil		0.03021	0	0	1	33.102	12/4/2004	12/4/2004
0412056-008B	Soil		0.03052	0	0	1	32.765	12/4/2004	12/4/2004
LCS-12089-SVOC			0.03	0	0	1	33.333	12/4/2004	12/4/2004
MB-12089-SVOC			0.03	0	0	1	33.333	12/4/2004	12/4/2004

CLIENT: Burns & McDonnell
Work Order: 0412018
Project: 32088, Willow Street Station- General Iron
Test No: SW8270C-SIM **Matrix:** S

QC SUMMARY REPORT
SURROGATE RECOVERIES

Sample ID	DCBZ12D4	NO2BZD5	PHEN2F	PHEND14				
MB-12088-PNA	71.3	79.8	79.2	88.8				
LCS-12088-PNA	66.1	80.2	75.8	94.6				
0412056-003BMS	70.3	86.4	80.2	96.8				
0412056-003BMSD	70.5	90.0	85.0	101				
0412018-003B	63.3	81.8	59.7	70.0				
0412018-007B	71.0	88.5	63.0	69.7				
0412018-001B	53.0	70.8	52.5	68.2				
0412018-005B	61.3	77.3	58.9	71.4				
0412018-006B	64.2	78.9	57.1	52.7				
0412018-004B	67.1	80.8	51.0	51.1				
0412018-002B	69.4	80.4	54.8	62.4				

Acronym		Surrogate	QC Limits
DCBZ12D4	=	1,2-Dichlorobenzene-d4	20-130
NO2BZD5	=	Nitrobenzene-d5	23-120
PHEN2F	=	2-Fluorobiphenyl	30-115
PHEND14	=	4-Terphenyl-d14	18-137

*** Surrogate recovery outside acceptance limits**

1

Prep Start Date: **12/4/2004 9:10:34 A**
Prep End Date: **12/4/2004 3:02:32 P**

Prep Batch **12088** Prep Code: **3550_PNA** Technician: **JT**

Prep Factor Units: **mL / Kg**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
0412018-001B	Soil		0.03011	0	0	1	33.212	12/4/2004	12/4/2004
0412018-002B	Soil		0.03062	0	0	1	32.658	12/4/2004	12/4/2004
0412018-003B	Soil		0.03061	0	0	1	32.669	12/4/2004	12/4/2004
0412018-004B	Soil		0.03069	0	0	1	32.584	12/4/2004	12/4/2004
0412018-005B	Soil		0.03029	0	0	1	33.014	12/4/2004	12/4/2004
0412018-006B	Soil		0.03043	0	0	1	32.862	12/4/2004	12/4/2004
0412018-007B	Soil		0.03062	0	0	1	32.658	12/4/2004	12/4/2004
0412027-001B	Soil		0.03084	0	0	1	32.425	12/4/2004	12/4/2004
0412027-002B	Soil		0.03055	0	0	1	32.733	12/4/2004	12/4/2004
0412027-003B	Soil		0.03036	0	0	1	32.938	12/4/2004	12/4/2004
0412027-004B	Soil		0.03037	0	0	1	32.927	12/4/2004	12/4/2004
0412056-001B	Soil		0.03074	0	0	1	32.531	12/4/2004	12/4/2004
0412056-002B	Soil		0.03081	0	0	1	32.457	12/4/2004	12/4/2004
0412056-003B	Soil		0.03026	0	0	1	33.047	12/4/2004	12/4/2004
0412056-003BMS	Soil		0.03058	0	0	1	32.701	12/4/2004	12/4/2004
0412056-003BMSD	Soil		0.0303	0	0	1	33.003	12/4/2004	12/4/2004
0412056-005B	Soil		0.03028	0	0	1	33.025	12/4/2004	12/4/2004
0412056-006B	Soil		0.03052	0	0	1	32.765	12/4/2004	12/4/2004
0412056-007B	Soil		0.03021	0	0	1	33.102	12/4/2004	12/4/2004
0412056-008B	Soil		0.03052	0	0	1	32.765	12/4/2004	12/4/2004
LCS-12088-PNA			0.03	0	0	1	33.333	12/4/2004	12/4/2004
MB-12088-PNA			0.03	0	0	1	33.333	12/4/2004	12/4/2004

Prep Start Date: **12/6/2004 8:47:59 P**
Prep End Date:

Prep Batch **12118** Prep Code: **3580_TPH** Technician: **CDC**

Prep Factor Units: **mL / Kg**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
0412018-001B	Soil		0.00513	0	0	5	974.659	12/6/2004	12/7/2004
0412018-002B	Soil		0.00515	0	0	5	970.874	12/6/2004	12/7/2004
0412018-002BMS	Soil		0.00521	0	0	5	959.693	12/6/2004	12/7/2004
0412018-002BMSD	Soil		0.00503	0	0	5	994.036	12/6/2004	12/7/2004
0412018-003B	Soil		0.00523	0	0	5	956.023	12/6/2004	12/7/2004
0412018-004B	Soil		0.00545	0	0	5	917.431	12/6/2004	12/7/2004
0412018-005B	Soil		0.00539	0	0	5	927.644	12/6/2004	12/7/2004
0412018-006B	Soil		0.00518	0	0	5	965.251	12/6/2004	12/7/2004
0412018-007B	Soil		0.00522	0	0	5	957.854	12/6/2004	12/7/2004
0412027-001B	Soil		0.00519	0	0	5	963.391	12/6/2004	12/7/2004
0412027-002B	Soil		0.00513	0	0	5	974.659	12/6/2004	12/7/2004
0412027-003B	Soil		0.00511	0	0	5	978.474	12/6/2004	12/7/2004
0412027-004B	Soil		0.00504	0	0	5	992.063	12/6/2004	12/7/2004
0412102-006B	Soil		0.00525	0	0	5	952.381	12/7/2004	12/8/2004
0412102-024B	Soil		0.00506	0	0	5	988.142	12/7/2004	12/8/2004
0412102-026B	Soil		0.00514	0	0	5	972.763	12/7/2004	12/8/2004
0412134-001A	Soil		0.0054	0	0	5	925.926	12/6/2004	12/7/2004
0412138-001B	Soil		0.00534	0	0	5	936.330	12/7/2004	12/8/2004
LCS-12118-TPH			0.005	0	0	5	1000.000	12/6/2004	12/7/2004
MB-12118-TPH			0.005	0	0	5	1000.000	12/6/2004	12/7/2004

CLIENT: Burns & McDonnell
Work Order: 0412018
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12118

Sample ID **MB-12118-TPH** SampType: **MBLK** TestCode: **TPH** Units: **mg/Kg** Prep Date: **12/6/2004** Run ID: **GC-FID_041207A**
Client ID: **ZZZZZ** Batch ID: **12118** TestNo: **SW8015M** Analysis Date: **12/7/2004** SeqNo: **319478**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	ND	20									*
TPH (Diesel)	ND	20									*
TPH (Oil)	ND	20									*

Sample ID **LCS-12118-TPH** SampType: **LCS** TestCode: **TPH** Units: **mg/Kg** Prep Date: **12/6/2004** Run ID: **GC-FID_041207A**
Client ID: **ZZZZZ** Batch ID: **12118** TestNo: **SW8015M** Analysis Date: **12/7/2004** SeqNo: **319479**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	178.4	20	200	0	89.2	30	150	0	0		*
TPH (Diesel)	244.7	20	200	0	122	30	150	0	0		*
TPH (Oil)	287.6	20	200	0	144	30	150	0	0		*

Sample ID **0412018-002BMS** SampType: **MS** TestCode: **TPH** Units: **mg/Kg-dry** Prep Date: **12/6/2004** Run ID: **GC-FID_041207A**
Client ID: **WSS-SB57-002** Batch ID: **12118** TestNo: **SW8015M** Analysis Date: **12/8/2004** SeqNo: **319491**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	254.4	23	350.4	5.641	71	30	150	0	0		*
TPH (Diesel)	379.4	23	350.4	4.202	107	30	150	0	0		*
TPH (Oil)	464.9	23	350.4	16.57	128	30	150	0	0		*

Sample ID **0412018-002BMSD** SampType: **MSD** TestCode: **TPH** Units: **mg/Kg-dry** Prep Date: **12/6/2004** Run ID: **GC-FID_041207A**
Client ID: **WSS-SB57-002** Batch ID: **12118** TestNo: **SW8015M** Analysis Date: **12/8/2004** SeqNo: **319492**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	247.5	24	362.9	5.641	66.6	30	150	254.4	2.76	25	*
TPH (Diesel)	365.2	24	362.9	4.202	99.5	30	150	379.4	3.82	25	*
TPH (Oil)	445	24	362.9	16.57	118	30	150	464.9	4.38	25	*

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412018
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12088

Sample ID **MB-12088-PNA** SampType: **MBLK** TestCode: **PNA_SOIL** Units: **mg/Kg** Prep Date: **12/4/2004** Run ID: **SVOC-3_041205A**
Client ID: **ZZZZZ** Batch ID: **12088** TestNo: **SW8270C-SI** Analysis Date: **12/5/2004** SeqNo: **317931**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.025									
Acenaphthylene	ND	0.025									
Anthracene	ND	0.025									
Benz(a)anthracene	ND	0.025									
Benzo(a)pyrene	ND	0.025									
Benzo(b)fluoranthene	ND	0.025									
Benzo(g,h,i)perylene	ND	0.025									
Benzo(k)fluoranthene	ND	0.025									
Chrysene	ND	0.025									
Dibenz(a,h)anthracene	ND	0.025									
Fluoranthene	ND	0.025									
Fluorene	ND	0.025									
Indeno(1,2,3-cd)pyrene	ND	0.025									
Naphthalene	ND	0.025									
Phenanthrene	ND	0.025									
Pyrene	ND	0.025									

Sample ID **LCS-12088-PNA** SampType: **LCS** TestCode: **PNA_SOIL** Units: **mg/Kg** Prep Date: **12/4/2004** Run ID: **SVOC-3_041205A**
Client ID: **ZZZZZ** Batch ID: **12088** TestNo: **SW8270C-SI** Analysis Date: **12/5/2004** SeqNo: **317932**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.1157	0.025	0.167	0	69.3	30	130	0	0		
Acenaphthylene	0.1163	0.025	0.167	0	69.7	30	130	0	0		
Anthracene	0.1237	0.025	0.167	0	74.1	30	130	0	0		
Benz(a)anthracene	0.1427	0.025	0.167	0	85.4	30	130	0	0		
Benzo(a)pyrene	0.1447	0.025	0.167	0	86.6	30	130	0	0		
Benzo(b)fluoranthene	0.1613	0.025	0.167	0	96.6	30	130	0	0		
Benzo(g,h,i)perylene	0.1517	0.025	0.167	0	90.8	30	130	0	0		
Benzo(k)fluoranthene	0.132	0.025	0.167	0	79	30	130	0	0		
Chrysene	0.138	0.025	0.167	0	82.6	30	130	0	0		
Dibenz(a,h)anthracene	0.1547	0.025	0.167	0	92.6	30	130	0	0		

Qualifiers:
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R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412018
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12088

Sample ID	LCS-12088-PNA	SampType:	LCS	TestCode:	PNA_SOIL	Units:	mg/Kg	Prep Date:	12/4/2004	Run ID:	SVOC-3_041205A
Client ID:	ZZZZZ	Batch ID:	12088	TestNo:	SW8270C-SI			Analysis Date:	12/5/2004	SeqNo:	317932

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	0.1387	0.025	0.167	0	83	30	130	0	0		
Fluorene	0.1283	0.025	0.167	0	76.8	30	130	0	0		
Indeno(1,2,3-cd)pyrene	0.152	0.025	0.167	0	91	30	130	0	0		
Naphthalene	0.1073	0.025	0.167	0	64.3	30	130	0	0		
Phenanthrene	0.1263	0.025	0.167	0	75.6	30	130	0	0		
Pyrene	0.1337	0.025	0.167	0	80	30	130	0	0		

Sample ID	0412056-003BMS	SampType:	MS	TestCode:	PNA_SOIL	Units:	mg/Kg-dry	Prep Date:	12/4/2004	Run ID:	SVOC-3_041206A
Client ID:	ZZZZZ	Batch ID:	12088	TestNo:	SW8270C-SI			Analysis Date:	12/6/2004	SeqNo:	318718

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.1521	0.030	0.2032	0	74.9	30	130	0	0		
Acenaphthylene	0.1546	0.030	0.2032	0	76	30	130	0	0		
Anthracene	0.1582	0.030	0.2032	0	77.8	30	130	0	0		
Benz(a)anthracene	0.1846	0.030	0.2032	0	90.8	30	130	0	0		
Benzo(a)pyrene	0.1911	0.030	0.2032	0	94	30	130	0	0		
Benzo(b)fluoranthene	0.1907	0.030	0.2032	0	93.8	30	130	0	0		
Benzo(g,h,i)perylene	0.202	0.030	0.2032	0	99.4	30	130	0	0		
Benzo(k)fluoranthene	0.1911	0.030	0.2032	0	94	30	130	0	0		
Chrysene	0.1801	0.030	0.2032	0	88.6	30	130	0	0		
Dibenz(a,h)anthracene	0.2049	0.030	0.2032	0	101	30	130	0	0		
Fluoranthene	0.1834	0.030	0.2032	0.01394	83.4	30	130	0	0		
Fluorene	0.1675	0.030	0.2032	0	82.4	30	130	0	0		
Indeno(1,2,3-cd)pyrene	0.2016	0.030	0.2032	0	99.2	30	130	0	0		
Naphthalene	0.1412	0.030	0.2032	0	69.5	30	130	0	0		
Phenanthrene	0.1675	0.030	0.2032	0.01927	73	30	130	0	0		
Pyrene	0.1761	0.030	0.2032	0.01066	81.4	30	130	0	0		

Qualifiers:
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H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412018
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12088

Sample ID **0412056-003BMSD**	SampType: **MSD**	TestCode: **PNA_SOIL**	Units: **mg/Kg-dry**	Prep Date: **12/4/2004**		Run ID: **SVOC-3_041206A**	
Client ID: **ZZZZZ**	Batch ID: **12088**	TestNo: **SW8270C-SI**		Analysis Date: **12/6/2004**		SeqNo: **318719**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.1642	0.031	0.2051	0	80	30	130	0.1521	7.62	50	
Acenaphthylene	0.1646	0.031	0.2051	0	80.2	30	130	0.1546	6.28	50	
Anthracene	0.172	0.031	0.2051	0	83.8	30	130	0.1582	8.33	50	
Benz(a)anthracene	0.1871	0.031	0.2051	0	91.2	30	130	0.1846	1.36	50	
Benzo(a)pyrene	0.1904	0.031	0.2051	0	92.8	30	130	0.1911	0.362	50	
Benzo(b)fluoranthene	0.1928	0.031	0.2051	0	94	30	130	0.1907	1.13	50	
Benzo(g,h,i)perylene	0.2047	0.031	0.2051	0	99.8	30	130	0.202	1.32	50	
Benzo(k)fluoranthene	0.1924	0.031	0.2051	0	93.8	30	130	0.1911	0.707	50	
Chrysene	0.1822	0.031	0.2051	0	88.8	30	130	0.1801	1.14	50	
Dibenz(a,h)anthracene	0.2084	0.031	0.2051	0	102	30	130	0.2049	1.71	50	
Fluoranthene	0.1908	0.031	0.2051	0.01394	86.2	30	130	0.1834	3.97	50	
Fluorene	0.1838	0.031	0.2051	0	89.6	30	130	0.1675	9.27	50	
Indeno(1,2,3-cd)pyrene	0.2051	0.031	0.2051	0	100	30	130	0.2016	1.72	50	
Naphthalene	0.147	0.031	0.2051	0	71.7	30	130	0.1412	4.03	50	
Phenanthrene	0.1789	0.031	0.2051	0.01927	77.8	30	130	0.1675	6.57	50	
Pyrene	0.181	0.031	0.2051	0.01066	83	30	130	0.1761	2.75	50	

Qualifiers:
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H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412018
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12089

Sample ID	**MB-12089-SVOC**	SampType:	**MBLK**	TestCode:	**SVOC_SOIL**	Units:	**mg/Kg**	Prep Date:	**12/4/2004**	Run ID:	**SVOC-2_041205A**
Client ID:	**ZZZZZ**	Batch ID:	**12089**	TestNo:	**SW8270C**			Analysis Date:	**12/5/2004**	SeqNo:	**318036**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	0.17									
1,2-Dichlorobenzene	ND	0.17									
1,3-Dichlorobenzene	ND	0.17									
1,4-Dichlorobenzene	ND	0.17									
2, 2'-oxybis(1-Chloropropane)	ND	0.17									
2,4,5-Trichlorophenol	ND	0.33									
2,4,6-Trichlorophenol	ND	0.17									
2,4-Dichlorophenol	ND	0.17									
2,4-Dimethylphenol	ND	0.17									
2,4-Dinitrophenol	ND	0.80									
2,4-Dinitrotoluene	ND	0.17									
2,6-Dinitrotoluene	ND	0.17									
2-Chloronaphthalene	ND	0.17									
2-Chlorophenol	ND	0.17									
2-Methylnaphthalene	ND	0.17									
2-Methylphenol	ND	0.17									
2-Nitroaniline	ND	0.80									
2-Nitrophenol	ND	0.17									
3,3´-Dichlorobenzidine	ND	0.33									
3-Nitroaniline	ND	0.80									
4,6-Dinitro-2-methylphenol	ND	0.80									
4-Bromophenyl phenyl ether	ND	0.17									
4-Chloro-3-methylphenol	ND	0.17									
4-Chloroaniline	ND	0.17									
4-Chlorophenyl phenyl ether	ND	0.17									
4-Methylphenol	ND	0.17									
4-Nitroaniline	ND	0.80									
4-Nitrophenol	ND	0.80									
Acenaphthene	ND	0.17									
Acenaphthylene	ND	0.17									
Aniline	ND	0.17									

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CLIENT: Burns & McDonnell
Work Order: 0412018
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12089

Sample ID	**MB-12089-SVOC**	SampType:	**MBLK**	TestCode:	**SVOC_SOIL**	Units:	**mg/Kg**	Prep Date:	**12/4/2004**	Run ID:	**SVOC-2_041205A**
Client ID:	**ZZZZZ**	Batch ID:	**12089**	TestNo:	**SW8270C**			Analysis Date:	**12/5/2004**	SeqNo:	**318036**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	ND	0.17									
Benz(a)anthracene	ND	0.17									
Benzidine	ND	0.17									
Benzo(a)pyrene	ND	0.17									
Benzo(b)fluoranthene	ND	0.17									
Benzo(g,h,i)perylene	ND	0.17									
Benzo(k)fluoranthene	ND	0.17									
Benzoic acid	ND	0.80									
Benzyl alcohol	ND	0.17									
Bis(2-chloroethoxy)methane	ND	0.17									
Bis(2-chloroethyl)ether	ND	0.17									
Bis(2-ethylhexyl)phthalate	ND	0.17									
Butyl benzyl phthalate	ND	0.17									
Carbazole	ND	0.17									
Chrysene	ND	0.17									
Di-n-butyl phthalate	ND	0.17									
Di-n-octyl phthalate	ND	0.17									
Dibenz(a,h)anthracene	ND	0.17									
Dibenzofuran	ND	0.17									
Diethyl phthalate	ND	0.17									
Dimethyl phthalate	ND	0.17									
Fluoranthene	ND	0.17									
Fluorene	ND	0.17									
Hexachlorobenzene	ND	0.17									
Hexachlorobutadiene	ND	0.17									
Hexachlorocyclopentadiene	ND	0.17									
Hexachloroethane	ND	0.17									
Indeno(1,2,3-cd)pyrene	ND	0.17									
Isophorone	ND	0.17									
N-Nitrosodi-n-propylamine	ND	0.17									
N-Nitrosodimethylamine	ND	0.17									

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H/HT - Holding Time Exceeded
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CLIENT: Burns & McDonnell
Work Order: 0412018
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12089

Sample ID	MB-12089-SVOC	SampType:	MBLK	TestCode:	SVOC_SOIL	Units:	mg/Kg	Prep Date:	12/4/2004	Run ID:	SVOC-2_041205A
Client ID:	ZZZZZ	Batch ID:	12089	TestNo:	SW8270C			Analysis Date:	12/5/2004	SeqNo:	318036

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
N-Nitrosodiphenylamine	ND	0.17									
Naphthalene	ND	0.17									
Nitrobenzene	ND	0.17									
Pentachlorophenol	ND	0.80									
Phenanthrene	ND	0.17									
Phenol	ND	0.17									
Pyrene	ND	0.17									
Pyridine	ND	0.17									

Sample ID	LCS-12089-SVOC	SampType:	LCS	TestCode:	SVOC_SOIL	Units:	mg/Kg	Prep Date:	12/4/2004	Run ID:	SVOC-2_041205A
Client ID:	ZZZZZ	Batch ID:	12089	TestNo:	SW8270C			Analysis Date:	12/5/2004	SeqNo:	318037

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.204	0.17	1.667	0	72.2	55	106	0	0		
1,4-Dichlorobenzene	1.149	0.17	1.667	0	68.9	55	90	0	0		
2,4-Dinitrotoluene	1.307	0.17	1.667	0	78.4	55	101	0	0		
2-Chlorophenol	2.424	0.17	3.333	0	72.7	61	91	0	0		
4-Chloro-3-methylphenol	2.869	0.17	3.333	0	86.1	62	100	0	0		
4-Nitrophenol	2.909	0.80	3.333	0	87.3	53	123	0	0		
Acenaphthene	1.306	0.17	1.667	0	78.4	65	101	0	0		
N-Nitrosodi-n-propylamine	1.494	0.17	1.667	0	89.6	55	100	0	0		
Pentachlorophenol	2.87	0.80	3.333	0	86.1	40	120	0	0		
Phenol	2.927	0.17	3.333	0	87.8	60	91	0	0		
Pyrene	1.317	0.17	1.667	0	79	50	131	0	0		

Sample ID	0412056-006BMS	SampType:	MS	TestCode:	SVOC_SOIL	Units:	mg/Kg-dry	Prep Date:	12/4/2004	Run ID:	SVOC-2_041205A
Client ID:	ZZZZZ	Batch ID:	12089	TestNo:	SW8270C			Analysis Date:	12/5/2004	SeqNo:	318043

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.725	0.21	2.102	0	82	55	106	0	0		
1,4-Dichlorobenzene	1.671	0.21	2.102	0	79.5	55	90	0	0		

Qualifiers:
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R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412018
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12089

Sample ID **0412056-006BMS** SampType: **MS** TestCode: **SVOC_SOIL** Units: **mg/Kg-dry** Prep Date: **12/4/2004** Run ID: **SVOC-2_041205A**
Client ID: **ZZZZZ** Batch ID: **12089** TestNo: **SW8270C** Analysis Date: **12/5/2004** SeqNo: **318043**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	1.845	0.21	2.102	0	87.8	55	101	0	0		
2-Chlorophenol	3.319	0.21	4.203	0	78.9	61	91	0	0		
4-Chloro-3-methylphenol	3.541	0.21	4.203	0	84.2	62	100	0	0		
4-Nitrophenol	3.775	1.0	4.203	0	89.8	53	123	0	0		
Acenaphthene	1.754	0.21	2.102	0	83.4	65	101	0	0		
N-Nitrosodi-n-propylamine	2.079	0.21	2.102	0	98.9	55	100	0	0		
Pentachlorophenol	3.67	1.0	4.203	0	87.3	40	120	0	0		
Phenol	3.741	0.21	4.203	0	89	60	91	0	0		
Pyrene	1.89	0.21	2.102	0	89.9	50	131	0	0		

Sample ID **0412056-006BMSD** SampType: **MSD** TestCode: **SVOC_SOIL** Units: **mg/Kg-dry** Prep Date: **12/4/2004** Run ID: **SVOC-2_041205A**
Client ID: **ZZZZZ** Batch ID: **12089** TestNo: **SW8270C** Analysis Date: **12/5/2004** SeqNo: **318044**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.72	0.22	2.11	0	81.5	55	106	1.725	0.277	23	
1,4-Dichlorobenzene	1.597	0.22	2.11	0	75.7	55	90	1.671	4.51	27	
2,4-Dinitrotoluene	2.046	0.22	2.11	0	97	55	101	1.845	10.3	47	
2-Chlorophenol	3.264	0.22	4.219	0	77.4	61	91	3.319	1.66	50	
4-Chloro-3-methylphenol	3.976	0.22	4.219	0	94.2	62	100	3.541	11.6	33	
4-Nitrophenol	4.233	1.0	4.219	0	100	53	123	3.775	11.4	50	
Acenaphthene	1.87	0.22	2.11	0	88.6	65	101	1.754	6.40	19	
N-Nitrosodi-n-propylamine	2.177	0.22	2.11	0	103	55	100	2.079	4.61	38	S
Pentachlorophenol	4.213	1.0	4.219	0	99.9	40	120	3.67	13.8	47	
Phenol	3.77	0.22	4.219	0	89.4	60	91	3.741	0.752	35	
Pyrene	2.052	0.22	2.11	0	97.2	50	131	1.89	8.20	36	

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H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412018
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15509

Sample ID **VBLK120504a-3** SampType: **MBLK** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-3_041205A**
Client ID: **ZZZZZ** Batch ID: **R15509** TestNo: **SW5035/8260** Analysis Date: **12/5/2004** SeqNo: **317871**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.0050									
1,1,2,2-Tetrachloroethane	ND	0.0050									
1,1,2-Trichloroethane	ND	0.0050									
1,1-Dichloroethane	ND	0.0050									
1,1-Dichloroethene	ND	0.0050									
1,2-Dichloroethane	ND	0.0050									
1,2-Dichloropropane	ND	0.0050									
2-Butanone	ND	0.010									
2-Hexanone	ND	0.010									
4-Methyl-2-pentanone	ND	0.010									
Acetone	ND	0.025									
Benzene	ND	0.0050									
Bromodichloromethane	ND	0.0050									
Bromoform	ND	0.0050									
Bromomethane	ND	0.010									
Carbon disulfide	ND	0.0050									
Carbon tetrachloride	ND	0.0050									
Chlorobenzene	ND	0.0050									
Chloroethane	ND	0.010									
Chloroform	ND	0.0050									
Chloromethane	ND	0.010									
cis-1,2-Dichloroethene	ND	0.0050									
cis-1,3-Dichloropropene	ND	0.0050									
Dibromochloromethane	ND	0.0050									
Ethylbenzene	ND	0.0050									
Methyl tert-butyl ether	ND	0.0050									
Methylene chloride	0.00098	0.010									J
Styrene	ND	0.0050									
Tetrachloroethene	ND	0.0050									
Toluene	ND	0.0050									
trans-1,2-Dichloroethene	ND	0.0050									

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H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412018
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15509

Sample ID	VBLK120504a-3	SampType:	MBLK	TestCode:	VOC_ENCOR	Units:	mg/Kg	Prep Date:		Run ID:	VOA-3_041205A
Client ID:	ZZZZZ	Batch ID:	R15509	TestNo:	SW5035/8260			Analysis Date:	12/5/2004	SeqNo:	317871

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	ND	0.0050									
Trichloroethene	ND	0.0050									
Vinyl chloride	ND	0.0050									
Xylenes, Total	ND	0.010									

Sample ID	VLCS120504a-3	SampType:	LCS	TestCode:	VOC_ENCOR	Units:	mg/Kg	Prep Date:		Run ID:	VOA-3_041205A
Client ID:	ZZZZZ	Batch ID:	R15509	TestNo:	SW5035/8260			Analysis Date:	12/5/2004	SeqNo:	317872

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.04659	0.0050	0.05	0	93.2	70	130	0	0		
1,1,2,2-Tetrachloroethane	0.04981	0.0050	0.05	0	99.6	70	130	0	0		
1,1,2-Trichloroethane	0.04678	0.0050	0.05	0	93.6	70	130	0	0		
1,1-Dichloroethane	0.04999	0.0050	0.05	0	100	70	130	0	0		
1,1-Dichloroethene	0.04824	0.0050	0.05	0	96.5	70	130	0	0		
1,2-Dichloroethane	0.04607	0.0050	0.05	0	92.1	70	130	0	0		
1,2-Dichloropropane	0.04524	0.0050	0.05	0	90.5	70	130	0	0		
2-Butanone	0.04403	0.010	0.05	0	88.1	70	130	0	0		
2-Hexanone	0.04136	0.010	0.05	0	82.7	70	130	0	0		
4-Methyl-2-pentanone	0.04307	0.010	0.05	0	86.1	70	130	0	0		
Acetone	0.05897	0.025	0.05	0	118	50	150	0	0		
Benzene	0.04615	0.0050	0.05	0	92.3	70	130	0	0		
Bromodichloromethane	0.04484	0.0050	0.05	0	89.7	70	130	0	0		
Bromoform	0.04821	0.0050	0.05	0	96.4	70	130	0	0		
Bromomethane	0.06442	0.010	0.05	0	129	70	130	0	0		
Carbon disulfide	0.06213	0.0050	0.05	0	124	70	130	0	0		
Carbon tetrachloride	0.04714	0.0050	0.05	0	94.3	70	130	0	0		
Chlorobenzene	0.04667	0.0050	0.05	0	93.3	70	130	0	0		
Chloroethane	0.0562	0.010	0.05	0	112	70	130	0	0		
Chloroform	0.04856	0.0050	0.05	0	97.1	70	130	0	0		
Chloromethane	0.03702	0.010	0.05	0	74	70	130	0	0		
cis-1,2-Dichloroethene	0.04783	0.0050	0.05	0	95.7	70	130	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

ANALYTICAL QC SUMMARY REPORT

BatchID: R15509

Sample ID **VLCS120504a-3** SampType: **LCS** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-3_041205A**
Client ID: **ZZZZZ** Batch ID: **R15509** TestNo: **SW5035/8260** Analysis Date: **12/5/2004** SeqNo: **317872**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	0.04334	0.0050	0.05	0	86.7	70	130	0	0		
Dibromochloromethane	0.04933	0.0050	0.05	0	98.7	70	130	0	0		
Ethylbenzene	0.04764	0.0050	0.05	0	95.3	70	130	0	0		
Methyl tert-butyl ether	0.04583	0.0050	0.05	0	91.7	50	150	0	0		
Methylene chloride	0.04511	0.010	0.05	0.00098	88.3	70	130	0	0		
Styrene	0.0451	0.0050	0.05	0	90.2	70	130	0	0		
Tetrachloroethene	0.04914	0.0050	0.05	0	98.3	70	130	0	0		
Toluene	0.04606	0.0050	0.05	0	92.1	70	130	0	0		
trans-1,2-Dichloroethene	0.04866	0.0050	0.05	0	97.3	70	130	0	0		
trans-1,3-Dichloropropene	0.04719	0.0050	0.05	0	94.4	70	130	0	0		
Trichloroethene	0.04629	0.0050	0.05	0	92.6	70	130	0	0		
Vinyl chloride	0.04996	0.0050	0.05	0	99.9	70	130	0	0		
Xylenes, Total	0.1436	0.010	0.15	0	95.7	70	130	0	0		

Sample ID **VLCSD120504a-3** SampType: **LCSD** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-3_041205A**
Client ID: **ZZZZZ** Batch ID: **R15509** TestNo: **SW5035/8260** Analysis Date: **12/5/2004** SeqNo: **317873**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.04919	0.0050	0.05	0	98.4	70	130	0.04659	5.43	20	
1,1,2,2-Tetrachloroethane	0.05126	0.0050	0.05	0	103	70	130	0.04981	2.87	20	
1,1,2-Trichloroethane	0.04861	0.0050	0.05	0	97.2	70	130	0.04678	3.84	20	
1,1-Dichloroethane	0.05066	0.0050	0.05	0	101	70	130	0.04999	1.33	20	
1,1-Dichloroethene	0.05118	0.0050	0.05	0	102	70	130	0.04824	5.91	20	
1,2-Dichloroethane	0.04768	0.0050	0.05	0	95.4	70	130	0.04607	3.43	20	
1,2-Dichloropropane	0.04864	0.0050	0.05	0	97.3	70	130	0.04524	7.24	20	
2-Butanone	0.05104	0.010	0.05	0	102	70	130	0.04403	14.7	20	
2-Hexanone	0.04263	0.010	0.05	0	85.3	70	130	0.04136	3.02	20	
4-Methyl-2-pentanone	0.04507	0.010	0.05	0	90.1	70	130	0.04307	4.54	20	
Acetone	0.05232	0.025	0.05	0	105	50	150	0.05897	12.0	20	
Benzene	0.04912	0.0050	0.05	0	98.2	70	130	0.04615	6.23	20	
Bromodichloromethane	0.04644	0.0050	0.05	0	92.9	70	130	0.04484	3.51	20	

Qualifiers:
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R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412018
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15509

Sample ID **VLCSD120504a-3** SampType: **LCSD** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-3_041205A**
Client ID: **ZZZZZ** Batch ID: **R15509** TestNo: **SW5035/8260** Analysis Date: **12/5/2004** SeqNo: **317873**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	0.04908	0.0050	0.05	0	98.2	70	130	0.04821	1.79	20	
Bromomethane	0.06734	0.010	0.05	0	135	70	130	0.06442	4.43	20	S
Carbon disulfide	0.06308	0.0050	0.05	0	126	70	130	0.06213	1.52	20	
Carbon tetrachloride	0.05215	0.0050	0.05	0	104	70	130	0.04714	10.1	20	
Chlorobenzene	0.04781	0.0050	0.05	0	95.6	70	130	0.04667	2.41	20	
Chloroethane	0.05791	0.010	0.05	0	116	70	130	0.0562	3.00	20	
Chloroform	0.05001	0.0050	0.05	0	100	70	130	0.04856	2.94	20	
Chloromethane	0.03867	0.010	0.05	0	77.3	70	130	0.03702	4.36	20	
cis-1,2-Dichloroethene	0.05033	0.0050	0.05	0	101	70	130	0.04783	5.09	20	
cis-1,3-Dichloropropene	0.04572	0.0050	0.05	0	91.4	70	130	0.04334	5.34	20	
Dibromochloromethane	0.04948	0.0050	0.05	0	99	70	130	0.04933	0.304	20	
Ethylbenzene	0.05015	0.0050	0.05	0	100	70	130	0.04764	5.13	20	
Methyl tert-butyl ether	0.04635	0.0050	0.05	0	92.7	50	150	0.04583	1.13	20	
Methylene chloride	0.04707	0.010	0.05	0.00098	92.2	70	130	0.04511	4.25	20	
Styrene	0.04748	0.0050	0.05	0	95	70	130	0.0451	5.14	20	
Tetrachloroethene	0.0504	0.0050	0.05	0	101	70	130	0.04914	2.53	20	
Toluene	0.05003	0.0050	0.05	0	100	70	130	0.04606	8.26	20	
trans-1,2-Dichloroethene	0.0492	0.0050	0.05	0	98.4	70	130	0.04866	1.10	20	
trans-1,3-Dichloropropene	0.04948	0.0050	0.05	0	99	70	130	0.04719	4.74	20	
Trichloroethene	0.04981	0.0050	0.05	0	99.6	70	130	0.04629	7.33	20	
Vinyl chloride	0.05366	0.0050	0.05	0	107	70	130	0.04996	7.14	20	
Xylenes, Total	0.1482	0.010	0.15	0	98.8	70	130	0.1436	3.16	20	

Qualifiers:
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R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412018
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15478

Sample ID	MBLK	SampType:	MBLK	TestCode:	PMOIST	Units:	wt%	Prep Date:	12/2/2004	Run ID:	BALANCE_041202A
Client ID:	ZZZZZ	Batch ID:	R15478	TestNo:	D2974			Analysis Date:	12/3/2004	SeqNo:	317441

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	ND	0.01000									*

Sample ID	LCS-S	SampType:	LCS	TestCode:	PMOIST	Units:	wt%	Prep Date:	12/2/2004	Run ID:	BALANCE_041202A
Client ID:	ZZZZZ	Batch ID:	R15478	TestNo:	D2974			Analysis Date:	12/3/2004	SeqNo:	317442

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	4.6	0.01000	5	0	92	80	120	0	0		*

Sample ID	LCS-W	SampType:	LCS	TestCode:	PMOIST	Units:	wt%	Prep Date:	12/2/2004	Run ID:	BALANCE_041202A
Client ID:	ZZZZZ	Batch ID:	R15478	TestNo:	D2974			Analysis Date:	12/3/2004	SeqNo:	317443

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	99.81	0.01000	99.8	0	100	80	120	0	0		*

Sample ID	0412056-001B DUP	SampType:	DUP	TestCode:	PMOIST	Units:	wt%	Prep Date:	12/2/2004	Run ID:	BALANCE_041202A
Client ID:	ZZZZZ	Batch ID:	R15478	TestNo:	D2974			Analysis Date:	12/3/2004	SeqNo:	317463

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	21.52	0.01000	0	0	0	0	0	21.46	0.279	20	*

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

STAT Analysis Corporation
2201 West Campbell Park Drive Chicago, IL 60612-3547
Tel: (312) 563-0371 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

December 15, 2004

Burns & McDonnell
2601 W. 22nd Street
OakBrook, IL 60523-1229
Telephone: (312) 563-0371
Fax: (630) 990-0301

RE: 32088, Willow Street Station- General Iron STAT Project No: 0412027

Dear Diane Saftic:

STAT Analysis received 5 samples for the referenced project on 12/1/2004. The analytical results are presented in the following report.

This report is revised to reflect changes made after the initial report was issued.

All analyses were performed in accordance with the requirements of 35 IAC part 186 (Accreditation #100445). Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Craig Chawla
Project Manager

Client: Burns & McDonnell
Project: 32088, Willow Street Station- General Iron
Lab Order: 0412027

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0412027-001A	WSS-SB47-001	12-14'	12/1/2004 8:05:00 AM	12/1/2004
0412027-001B	WSS-SB47-001	12-14'	12/1/2004 8:05:00 AM	12/1/2004
0412027-002A	WSS-SB47-002	16-18'	12/1/2004 8:20:00 AM	12/1/2004
0412027-002B	WSS-SB47-002	16-18'	12/1/2004 8:20:00 AM	12/1/2004
0412027-003A	WSS-SB51-001	10-12'	12/1/2004 11:55:00 AM	12/1/2004
0412027-003B	WSS-SB51-001	10-12'	12/1/2004 11:55:00 AM	12/1/2004
0412027-004A	WSS-SB51-002	18-20'	12/1/2004 12:40:00 PM	12/1/2004
0412027-004B	WSS-SB51-002	18-20'	12/1/2004 12:40:00 PM	12/1/2004
0412027-005A	TB03			12/1/2004

STAT Analysis Corporation

Date: *December 15, 2004*

CLIENT:	Burns & McDonnell
Project:	32088, Willow Street Station- General Iron
Lab Order:	0412027

CASE NARRATIVE

Due to matrix interference, sample WSS-SB51-001 (0412027-003) had high SVOC soil surrogate recovery for 2-Fluorobiphenyl (120% Recovery, QC Limits 30-115%).

STAT Analysis Corporation
2201 West Campbell Park Drive Chicago, IL 60612-3547
Tel: (312) 563-0371 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB47-001
Lab Order:	0412027	**Tag Number:**	12-14'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/1/2004 8:05:00 AM
Lab ID:	0412027-001A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/2/2004**		Analyst: **PS**
Acetone	ND	0.035		mg/Kg-dry	1	12/5/2004
Benzene	0.05	0.0071		mg/Kg-dry	1	12/5/2004
Bromodichloromethane	ND	0.0071		mg/Kg-dry	1	12/5/2004
Bromoform	ND	0.0071		mg/Kg-dry	1	12/5/2004
Bromomethane	ND	0.014		mg/Kg-dry	1	12/5/2004
2-Butanone	ND	0.014		mg/Kg-dry	1	12/5/2004
Carbon disulfide	ND	0.0071		mg/Kg-dry	1	12/5/2004
Carbon tetrachloride	ND	0.0071		mg/Kg-dry	1	12/5/2004
Chlorobenzene	ND	0.0071		mg/Kg-dry	1	12/5/2004
Chloroethane	ND	0.014		mg/Kg-dry	1	12/5/2004
Chloroform	ND	0.0071		mg/Kg-dry	1	12/5/2004
Chloromethane	ND	0.0071		mg/Kg-dry	1	12/5/2004
Dibromochloromethane	ND	0.0071		mg/Kg-dry	1	12/5/2004
1,1-Dichloroethane	ND	0.0071		mg/Kg-dry	1	12/5/2004
1,2-Dichloroethane	ND	0.0071		mg/Kg-dry	1	12/5/2004
1,1-Dichloroethene	ND	0.0071		mg/Kg-dry	1	12/5/2004
cis-1,2-Dichloroethene	ND	0.0071		mg/Kg-dry	1	12/5/2004
trans-1,2-Dichloroethene	ND	0.0071		mg/Kg-dry	1	12/5/2004
1,2-Dichloropropane	ND	0.0071		mg/Kg-dry	1	12/5/2004
cis-1,3-Dichloropropene	ND	0.0071		mg/Kg-dry	1	12/5/2004
trans-1,3-Dichloropropene	ND	0.0071		mg/Kg-dry	1	12/5/2004
Ethylbenzene	0.33	0.0071		mg/Kg-dry	1	12/5/2004
2-Hexanone	ND	0.014		mg/Kg-dry	1	12/5/2004
4-Methyl-2-pentanone	ND	0.014		mg/Kg-dry	1	12/5/2004
Methylene chloride	ND	0.014		mg/Kg-dry	1	12/5/2004
Methyl tert-butyl ether	ND	0.0071		mg/Kg-dry	1	12/5/2004
Styrene	ND	0.0071		mg/Kg-dry	1	12/5/2004
1,1,2,2-Tetrachloroethane	ND	0.0071		mg/Kg-dry	1	12/5/2004
Tetrachloroethene	ND	0.0071		mg/Kg-dry	1	12/5/2004
Toluene	ND	0.0071		mg/Kg-dry	1	12/5/2004
1,1,1-Trichloroethane	ND	0.0071		mg/Kg-dry	1	12/5/2004
1,1,2-Trichloroethane	ND	0.0071		mg/Kg-dry	1	12/5/2004
Trichloroethene	ND	0.0071		mg/Kg-dry	1	12/5/2004
Vinyl chloride	ND	0.0071		mg/Kg-dry	1	12/5/2004
Xylenes, Total	0.26	0.014		mg/Kg-dry	1	12/5/2004

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
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Tel: (312) 563-0371 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB47-001
Lab Order:	0412027	**Tag Number:**	12-14'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/1/2004 8:05:00 AM
Lab ID:	0412027-001B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/6/2004**		Analyst: **JF**
TPH (Gasoline)	ND	27	*	mg/Kg-dry	1	12/7/2004
TPH (Diesel)	100	27	*	mg/Kg-dry	1	12/7/2004
TPH (Oil)	97	27	*	mg/Kg-dry	1	12/7/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **VS**
Acenaphthene	22	3.3		mg/Kg-dry	100	12/7/2004
Acenaphthylene	2.7	0.33		mg/Kg-dry	10	12/6/2004
Anthracene	11	3.3		mg/Kg-dry	100	12/7/2004
Benz(a)anthracene	9	3.3		mg/Kg-dry	100	12/7/2004
Benzo(b)fluoranthene	4.5	3.3		mg/Kg-dry	100	12/7/2004
Benzo(k)fluoranthene	5.1	3.3		mg/Kg-dry	100	12/7/2004
Benzo(g,h,i)perylene	3.9	3.3		mg/Kg-dry	100	12/7/2004
Benzo(a)pyrene	4.6	3.3		mg/Kg-dry	100	12/7/2004
Chrysene	8	3.3		mg/Kg-dry	100	12/7/2004
Dibenz(a,h)anthracene	0.91	0.33		mg/Kg-dry	10	12/6/2004
Fluoranthene	20	3.3		mg/Kg-dry	100	12/7/2004
Fluorene	13	3.3		mg/Kg-dry	100	12/7/2004
Indeno(1,2,3-cd)pyrene	2.5	0.33		mg/Kg-dry	10	12/6/2004
Naphthalene	33	3.3		mg/Kg-dry	100	12/7/2004
Phenanthrene	43	3.3		mg/Kg-dry	100	12/7/2004
Pyrene	26	3.3		mg/Kg-dry	100	12/7/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.44		mg/Kg-dry	1	12/7/2004
Bis(2-chloroethyl)ether	ND	0.44		mg/Kg-dry	1	12/7/2004
Bis(2-ethylhexyl)phthalate	ND	0.44		mg/Kg-dry	1	12/7/2004
4-Bromophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	12/7/2004
Butyl benzyl phthalate	ND	0.44		mg/Kg-dry	1	12/7/2004
Carbazole	1.1	0.44		mg/Kg-dry	1	12/7/2004
4-Chloro-3-methylphenol	ND	0.44		mg/Kg-dry	1	12/7/2004
4-Chloroaniline	ND	0.44		mg/Kg-dry	1	12/7/2004
2-Chloronaphthalene	ND	0.44		mg/Kg-dry	1	12/7/2004
2-Chlorophenol	ND	0.44		mg/Kg-dry	1	12/7/2004
4-Chlorophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	12/7/2004
Dibenzofuran	2.5	0.44		mg/Kg-dry	1	12/7/2004
1,2-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	12/7/2004
1,3-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	12/7/2004
1,4-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	12/7/2004
3,3´-Dichlorobenzidine	ND	0.88		mg/Kg-dry	1	12/7/2004

Qualifiers:
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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB47-001
Lab Order:	0412027	**Tag Number:**	12-14'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/1/2004 8:05:00 AM
Lab ID:	0412027-001B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.44		mg/Kg-dry	1	12/7/2004
Diethyl phthalate	ND	0.44		mg/Kg-dry	1	12/7/2004
Dimethyl phthalate	ND	0.44		mg/Kg-dry	1	12/7/2004
Di-n-butyl phthalate	ND	0.44		mg/Kg-dry	1	12/7/2004
2,4-Dimethylphenol	ND	0.44		mg/Kg-dry	1	12/7/2004
4,6-Dinitro-2-methylphenol	ND	2.1		mg/Kg-dry	1	12/7/2004
2,4-Dinitrophenol	ND	2.1		mg/Kg-dry	1	12/7/2004
2,4-Dinitrotoluene	ND	0.23		mg/Kg-dry	1	12/7/2004
2,6-Dinitrotoluene	ND	0.23		mg/Kg-dry	1	12/7/2004
Di-n-octyl phthalate	ND	0.44		mg/Kg-dry	1	12/7/2004
Hexachlorobenzene	ND	0.44		mg/Kg-dry	1	12/7/2004
Hexachlorobutadiene	ND	0.44		mg/Kg-dry	1	12/7/2004
Hexachlorocyclopentadiene	ND	0.44		mg/Kg-dry	1	12/7/2004
Hexachloroethane	ND	0.44		mg/Kg-dry	1	12/7/2004
Isophorone	ND	0.44		mg/Kg-dry	1	12/7/2004
2-Methylnaphthalene	27	2.2		mg/Kg-dry	5	12/8/2004
2-Methylphenol	ND	0.44		mg/Kg-dry	1	12/7/2004
4-Methylphenol	ND	0.44		mg/Kg-dry	1	12/7/2004
2-Nitroaniline	ND	2.1		mg/Kg-dry	1	12/7/2004
3-Nitroaniline	ND	2.1		mg/Kg-dry	1	12/7/2004
4-Nitroaniline	ND	2.1		mg/Kg-dry	1	12/7/2004
Nitrobenzene	ND	0.23		mg/Kg-dry	1	12/7/2004
2-Nitrophenol	ND	0.44		mg/Kg-dry	1	12/7/2004
4-Nitrophenol	ND	2.1		mg/Kg-dry	1	12/7/2004
N-Nitrosodi-n-propylamine	ND	0.23		mg/Kg-dry	1	12/7/2004
N-Nitrosodiphenylamine	ND	0.44		mg/Kg-dry	1	12/7/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.44		mg/Kg-dry	1	12/7/2004
Pentachlorophenol	ND	2.1		mg/Kg-dry	1	12/7/2004
Phenol	ND	0.44		mg/Kg-dry	1	12/7/2004
1,2,4-Trichlorobenzene	ND	0.44		mg/Kg-dry	1	12/7/2004
2,4,5-Trichlorophenol	ND	0.88		mg/Kg-dry	1	12/7/2004
2,4,6-Trichlorophenol	ND	0.44		mg/Kg-dry	1	12/7/2004
Percent Moisture	**D2974**			Prep Date: **12/1/2004**		Analyst: **RW**
Percent Moisture	27.32	0.01	*	wt%	1	12/2/2004

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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB47-002
Lab Order:	0412027	**Tag Number:**	16-18'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/1/2004 8:20:00 AM
Lab ID:	0412027-002A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/2/2004**		Analyst: **PS**
Acetone	ND	0.032		mg/Kg-dry	1	12/4/2004
Benzene	ND	0.0065		mg/Kg-dry	1	12/4/2004
Bromodichloromethane	ND	0.0065		mg/Kg-dry	1	12/4/2004
Bromoform	ND	0.0065		mg/Kg-dry	1	12/4/2004
Bromomethane	ND	0.013		mg/Kg-dry	1	12/4/2004
2-Butanone	ND	0.013		mg/Kg-dry	1	12/4/2004
Carbon disulfide	ND	0.0065		mg/Kg-dry	1	12/4/2004
Carbon tetrachloride	ND	0.0065		mg/Kg-dry	1	12/4/2004
Chlorobenzene	ND	0.0065		mg/Kg-dry	1	12/4/2004
Chloroethane	ND	0.013		mg/Kg-dry	1	12/4/2004
Chloroform	ND	0.0065		mg/Kg-dry	1	12/4/2004
Chloromethane	ND	0.0065		mg/Kg-dry	1	12/4/2004
Dibromochloromethane	ND	0.0065		mg/Kg-dry	1	12/4/2004
1,1-Dichloroethane	ND	0.0065		mg/Kg-dry	1	12/4/2004
1,2-Dichloroethane	ND	0.0065		mg/Kg-dry	1	12/4/2004
1,1-Dichloroethene	ND	0.0065		mg/Kg-dry	1	12/4/2004
cis-1,2-Dichloroethene	ND	0.0065		mg/Kg-dry	1	12/4/2004
trans-1,2-Dichloroethene	ND	0.0065		mg/Kg-dry	1	12/4/2004
1,2-Dichloropropane	ND	0.0065		mg/Kg-dry	1	12/4/2004
cis-1,3-Dichloropropene	ND	0.0065		mg/Kg-dry	1	12/4/2004
trans-1,3-Dichloropropene	ND	0.0065		mg/Kg-dry	1	12/4/2004
Ethylbenzene	ND	0.0065		mg/Kg-dry	1	12/4/2004
2-Hexanone	ND	0.013		mg/Kg-dry	1	12/4/2004
4-Methyl-2-pentanone	ND	0.013		mg/Kg-dry	1	12/4/2004
Methylene chloride	ND	0.013		mg/Kg-dry	1	12/4/2004
Methyl tert-butyl ether	ND	0.0065		mg/Kg-dry	1	12/4/2004
Styrene	ND	0.0065		mg/Kg-dry	1	12/4/2004
1,1,2,2-Tetrachloroethane	ND	0.0065		mg/Kg-dry	1	12/4/2004
Tetrachloroethene	ND	0.0065		mg/Kg-dry	1	12/4/2004
Toluene	ND	0.0065		mg/Kg-dry	1	12/4/2004
1,1,1-Trichloroethane	ND	0.0065		mg/Kg-dry	1	12/4/2004
1,1,2-Trichloroethane	ND	0.0065		mg/Kg-dry	1	12/4/2004
Trichloroethene	ND	0.0065		mg/Kg-dry	1	12/4/2004
Vinyl chloride	ND	0.0065		mg/Kg-dry	1	12/4/2004
Xylenes, Total	ND	0.013		mg/Kg-dry	1	12/4/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB47-002
Lab Order:	0412027	**Tag Number:**	16-18'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/1/2004 8:20:00 AM
Lab ID:	0412027-002B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/6/2004**		Analyst: **JF**
TPH (Gasoline)	ND	25	*	mg/Kg-dry	1	12/7/2004
TPH (Diesel)	ND	25	*	mg/Kg-dry	1	12/7/2004
TPH (Oil)	ND	25	*	mg/Kg-dry	1	12/7/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **VS**
Acenaphthene	0.074	0.031		mg/Kg-dry	1	12/5/2004
Acenaphthylene	ND	0.031		mg/Kg-dry	1	12/5/2004
Anthracene	ND	0.031		mg/Kg-dry	1	12/5/2004
Benz(a)anthracene	0.032	0.031		mg/Kg-dry	1	12/5/2004
Benzo(b)fluoranthene	ND	0.031		mg/Kg-dry	1	12/5/2004
Benzo(k)fluoranthene	ND	0.031		mg/Kg-dry	1	12/5/2004
Benzo(g,h,i)perylene	ND	0.031		mg/Kg-dry	1	12/5/2004
Benzo(a)pyrene	ND	0.031		mg/Kg-dry	1	12/5/2004
Chrysene	0.048	0.031		mg/Kg-dry	1	12/5/2004
Dibenz(a,h)anthracene	ND	0.031		mg/Kg-dry	1	12/5/2004
Fluoranthene	0.072	0.031		mg/Kg-dry	1	12/5/2004
Fluorene	0.04	0.031		mg/Kg-dry	1	12/5/2004
Indeno(1,2,3-cd)pyrene	ND	0.031		mg/Kg-dry	1	12/5/2004
Naphthalene	0.13	0.031		mg/Kg-dry	1	12/5/2004
Phenanthrene	0.12	0.031		mg/Kg-dry	1	12/5/2004
Pyrene	0.088	0.031		mg/Kg-dry	1	12/5/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.41		mg/Kg-dry	1	12/6/2004
Bis(2-chloroethyl)ether	ND	0.41		mg/Kg-dry	1	12/6/2004
Bis(2-ethylhexyl)phthalate	ND	0.41		mg/Kg-dry	1	12/6/2004
4-Bromophenyl phenyl ether	ND	0.41		mg/Kg-dry	1	12/6/2004
Butyl benzyl phthalate	ND	0.41		mg/Kg-dry	1	12/6/2004
Carbazole	ND	0.41		mg/Kg-dry	1	12/6/2004
4-Chloro-3-methylphenol	ND	0.41		mg/Kg-dry	1	12/6/2004
4-Chloroaniline	ND	0.41		mg/Kg-dry	1	12/6/2004
2-Chloronaphthalene	ND	0.41		mg/Kg-dry	1	12/6/2004
2-Chlorophenol	ND	0.41		mg/Kg-dry	1	12/6/2004
4-Chlorophenyl phenyl ether	ND	0.41		mg/Kg-dry	1	12/6/2004
Dibenzofuran	ND	0.41		mg/Kg-dry	1	12/6/2004
1,2-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	12/6/2004
1,3-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	12/6/2004
1,4-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	12/6/2004
3,3´-Dichlorobenzidine	ND	0.82		mg/Kg-dry	1	12/6/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB47-002
Lab Order:	0412027	**Tag Number:**	16-18'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/1/2004 8:20:00 AM
Lab ID:	0412027-002B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.41		mg/Kg-dry	1	12/6/2004
Diethyl phthalate	ND	0.41		mg/Kg-dry	1	12/6/2004
Dimethyl phthalate	ND	0.41		mg/Kg-dry	1	12/6/2004
Di-n-butyl phthalate	ND	0.41		mg/Kg-dry	1	12/6/2004
2,4-Dimethylphenol	ND	0.41		mg/Kg-dry	1	12/6/2004
4,6-Dinitro-2-methylphenol	ND	2		mg/Kg-dry	1	12/6/2004
2,4-Dinitrophenol	ND	2		mg/Kg-dry	1	12/6/2004
2,4-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/6/2004
2,6-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/6/2004
Di-n-octyl phthalate	ND	0.41		mg/Kg-dry	1	12/6/2004
Hexachlorobenzene	ND	0.41		mg/Kg-dry	1	12/6/2004
Hexachlorobutadiene	ND	0.41		mg/Kg-dry	1	12/6/2004
Hexachlorocyclopentadiene	ND	0.41		mg/Kg-dry	1	12/6/2004
Hexachloroethane	ND	0.41		mg/Kg-dry	1	12/6/2004
Isophorone	ND	0.41		mg/Kg-dry	1	12/6/2004
2-Methylnaphthalene	ND	0.41		mg/Kg-dry	1	12/6/2004
2-Methylphenol	ND	0.41		mg/Kg-dry	1	12/6/2004
4-Methylphenol	ND	0.41		mg/Kg-dry	1	12/6/2004
2-Nitroaniline	ND	2		mg/Kg-dry	1	12/6/2004
3-Nitroaniline	ND	2		mg/Kg-dry	1	12/6/2004
4-Nitroaniline	ND	2		mg/Kg-dry	1	12/6/2004
Nitrobenzene	ND	0.21		mg/Kg-dry	1	12/6/2004
2-Nitrophenol	ND	0.41		mg/Kg-dry	1	12/6/2004
4-Nitrophenol	ND	2		mg/Kg-dry	1	12/6/2004
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	12/6/2004
N-Nitrosodiphenylamine	ND	0.41		mg/Kg-dry	1	12/6/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.41		mg/Kg-dry	1	12/6/2004
Pentachlorophenol	ND	2		mg/Kg-dry	1	12/6/2004
Phenol	ND	0.41		mg/Kg-dry	1	12/6/2004
1,2,4-Trichlorobenzene	ND	0.41		mg/Kg-dry	1	12/6/2004
2,4,5-Trichlorophenol	ND	0.82		mg/Kg-dry	1	12/6/2004
2,4,6-Trichlorophenol	ND	0.41		mg/Kg-dry	1	12/6/2004
Percent Moisture	**D2974**			Prep Date: **12/1/2004**		Analyst: **RW**
Percent Moisture	20.84	0.01	*	wt%	1	12/2/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB51-001
Lab Order:	0412027	**Tag Number:**	10-12'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/1/2004 11:55:00 AM
Lab ID:	0412027-003A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/2/2004**		Analyst: **PS**
Acetone	ND	0.03		mg/Kg-dry	1	12/4/2004
Benzene	3.7	0.34		mg/Kg-dry	50	12/5/2004
Bromodichloromethane	ND	0.006		mg/Kg-dry	1	12/4/2004
Bromoform	ND	0.006		mg/Kg-dry	1	12/4/2004
Bromomethane	ND	0.012		mg/Kg-dry	1	12/4/2004
2-Butanone	ND	0.012		mg/Kg-dry	1	12/4/2004
Carbon disulfide	ND	0.006		mg/Kg-dry	1	12/4/2004
Carbon tetrachloride	ND	0.006		mg/Kg-dry	1	12/4/2004
Chlorobenzene	ND	0.006		mg/Kg-dry	1	12/4/2004
Chloroethane	ND	0.012		mg/Kg-dry	1	12/4/2004
Chloroform	ND	0.006		mg/Kg-dry	1	12/4/2004
Chloromethane	ND	0.006		mg/Kg-dry	1	12/4/2004
Dibromochloromethane	ND	0.006		mg/Kg-dry	1	12/4/2004
1,1-Dichloroethane	ND	0.006		mg/Kg-dry	1	12/4/2004
1,2-Dichloroethane	ND	0.006		mg/Kg-dry	1	12/4/2004
1,1-Dichloroethene	ND	0.006		mg/Kg-dry	1	12/4/2004
cis-1,2-Dichloroethene	ND	0.006		mg/Kg-dry	1	12/4/2004
trans-1,2-Dichloroethene	ND	0.006		mg/Kg-dry	1	12/4/2004
1,2-Dichloropropane	ND	0.006		mg/Kg-dry	1	12/4/2004
cis-1,3-Dichloropropene	ND	0.006		mg/Kg-dry	1	12/4/2004
trans-1,3-Dichloropropene	ND	0.006		mg/Kg-dry	1	12/4/2004
Ethylbenzene	5.8	0.34		mg/Kg-dry	50	12/5/2004
2-Hexanone	ND	0.012		mg/Kg-dry	1	12/4/2004
4-Methyl-2-pentanone	ND	0.012		mg/Kg-dry	1	12/4/2004
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/4/2004
Methyl tert-butyl ether	ND	0.006		mg/Kg-dry	1	12/4/2004
Styrene	ND	0.006		mg/Kg-dry	1	12/4/2004
1,1,2,2-Tetrachloroethane	ND	0.006		mg/Kg-dry	1	12/4/2004
Tetrachloroethene	ND	0.006		mg/Kg-dry	1	12/4/2004
Toluene	0.0094	0.006		mg/Kg-dry	1	12/4/2004
1,1,1-Trichloroethane	ND	0.006		mg/Kg-dry	1	12/4/2004
1,1,2-Trichloroethane	ND	0.006		mg/Kg-dry	1	12/4/2004
Trichloroethene	ND	0.006		mg/Kg-dry	1	12/4/2004
Vinyl chloride	ND	0.006		mg/Kg-dry	1	12/4/2004
Xylenes, Total	3.9	0.68		mg/Kg-dry	50	12/5/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB51-001
Lab Order:	0412027	**Tag Number:**	10-12'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/1/2004 11:55:00 AM
Lab ID:	0412027-003B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/6/2004**		Analyst: **JF**
TPH (Gasoline)	26	26	*	mg/Kg-dry	1	12/7/2004
TPH (Diesel)	290	26	*	mg/Kg-dry	1	12/7/2004
TPH (Oil)	290	26	*	mg/Kg-dry	1	12/7/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **VS**
Acenaphthene	28	3.3		mg/Kg-dry	100	12/7/2004
Acenaphthylene	4.1	3.3		mg/Kg-dry	100	12/7/2004
Anthracene	20	3.3		mg/Kg-dry	100	12/7/2004
Benz(a)anthracene	17	3.3		mg/Kg-dry	100	12/7/2004
Benzo(b)fluoranthene	8.2	3.3		mg/Kg-dry	100	12/7/2004
Benzo(k)fluoranthene	7.4	3.3		mg/Kg-dry	100	12/7/2004
Benzo(g,h,i)perylene	8	3.3		mg/Kg-dry	100	12/7/2004
Benzo(a)pyrene	16	3.3		mg/Kg-dry	100	12/7/2004
Chrysene	17	3.3		mg/Kg-dry	100	12/7/2004
Dibenz(a,h)anthracene	1.4	0.33		mg/Kg-dry	10	12/6/2004
Fluoranthene	36	33		mg/Kg-dry	1000	12/7/2004
Fluorene	21	3.3		mg/Kg-dry	100	12/7/2004
Indeno(1,2,3-cd)pyrene	6.2	3.3		mg/Kg-dry	100	12/7/2004
Naphthalene	67	33		mg/Kg-dry	1000	12/7/2004
Phenanthrene	78	33		mg/Kg-dry	1000	12/7/2004
Pyrene	50	33		mg/Kg-dry	1000	12/7/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.44		mg/Kg-dry	1	12/7/2004
Bis(2-chloroethyl)ether	ND	0.44		mg/Kg-dry	1	12/7/2004
Bis(2-ethylhexyl)phthalate	ND	0.44		mg/Kg-dry	1	12/7/2004
4-Bromophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	12/7/2004
Butyl benzyl phthalate	ND	0.44		mg/Kg-dry	1	12/7/2004
Carbazole	4.8	0.44		mg/Kg-dry	1	12/7/2004
4-Chloro-3-methylphenol	ND	0.44		mg/Kg-dry	1	12/7/2004
4-Chloroaniline	ND	0.44		mg/Kg-dry	1	12/7/2004
2-Chloronaphthalene	ND	0.44		mg/Kg-dry	1	12/7/2004
2-Chlorophenol	ND	0.44		mg/Kg-dry	1	12/7/2004
4-Chlorophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	12/7/2004
Dibenzofuran	3.4	0.44		mg/Kg-dry	1	12/7/2004
1,2-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	12/7/2004
1,3-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	12/7/2004
1,4-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	12/7/2004
3,3´-Dichlorobenzidine	ND	0.87		mg/Kg-dry	1	12/7/2004

Qualifiers:
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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB51-001
Lab Order:	0412027	**Tag Number:**	10-12'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/1/2004 11:55:00 AM
Lab ID:	0412027-003B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.44		mg/Kg-dry	1	12/7/2004
Diethyl phthalate	ND	0.44		mg/Kg-dry	1	12/7/2004
Dimethyl phthalate	ND	0.44		mg/Kg-dry	1	12/7/2004
Di-n-butyl phthalate	ND	0.44		mg/Kg-dry	1	12/7/2004
2,4-Dimethylphenol	ND	0.44		mg/Kg-dry	1	12/7/2004
4,6-Dinitro-2-methylphenol	ND	2.1		mg/Kg-dry	1	12/7/2004
2,4-Dinitrophenol	ND	2.1		mg/Kg-dry	1	12/7/2004
2,4-Dinitrotoluene	ND	0.22		mg/Kg-dry	1	12/7/2004
2,6-Dinitrotoluene	ND	0.22		mg/Kg-dry	1	12/7/2004
Di-n-octyl phthalate	ND	0.44		mg/Kg-dry	1	12/7/2004
Hexachlorobenzene	ND	0.44		mg/Kg-dry	1	12/7/2004
Hexachlorobutadiene	ND	0.44		mg/Kg-dry	1	12/7/2004
Hexachlorocyclopentadiene	ND	0.44		mg/Kg-dry	1	12/7/2004
Hexachloroethane	ND	0.44		mg/Kg-dry	1	12/7/2004
Isophorone	ND	0.44		mg/Kg-dry	1	12/7/2004
2-Methylnaphthalene	52	4.4		mg/Kg-dry	10	12/8/2004
2-Methylphenol	ND	0.44		mg/Kg-dry	1	12/7/2004
4-Methylphenol	ND	0.44		mg/Kg-dry	1	12/7/2004
2-Nitroaniline	ND	2.1		mg/Kg-dry	1	12/7/2004
3-Nitroaniline	ND	2.1		mg/Kg-dry	1	12/7/2004
4-Nitroaniline	ND	2.1		mg/Kg-dry	1	12/7/2004
Nitrobenzene	ND	0.22		mg/Kg-dry	1	12/7/2004
2-Nitrophenol	ND	0.44		mg/Kg-dry	1	12/7/2004
4-Nitrophenol	ND	2.1		mg/Kg-dry	1	12/7/2004
N-Nitrosodi-n-propylamine	ND	0.22		mg/Kg-dry	1	12/7/2004
N-Nitrosodiphenylamine	ND	0.44		mg/Kg-dry	1	12/7/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.44		mg/Kg-dry	1	12/7/2004
Pentachlorophenol	ND	2.1		mg/Kg-dry	1	12/7/2004
Phenol	ND	0.44		mg/Kg-dry	1	12/7/2004
1,2,4-Trichlorobenzene	ND	0.44		mg/Kg-dry	1	12/7/2004
2,4,5-Trichlorophenol	ND	0.87		mg/Kg-dry	1	12/7/2004
2,4,6-Trichlorophenol	ND	0.44		mg/Kg-dry	1	12/7/2004
Percent Moisture	**D2974**			Prep Date: **12/1/2004**		Analyst: **RW**
Percent Moisture	25.20	0.01	*	wt%	1	12/2/2004

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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB51-002
Lab Order:	0412027	**Tag Number:**	18-20'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/1/2004 12:40:00 PM
Lab ID:	0412027-004A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/2/2004**		Analyst: **PS**
Acetone	ND	0.027		mg/Kg-dry	1	12/4/2004
Benzene	ND	0.0055		mg/Kg-dry	1	12/4/2004
Bromodichloromethane	ND	0.0055		mg/Kg-dry	1	12/4/2004
Bromoform	ND	0.0055		mg/Kg-dry	1	12/4/2004
Bromomethane	ND	0.011		mg/Kg-dry	1	12/4/2004
2-Butanone	ND	0.011		mg/Kg-dry	1	12/4/2004
Carbon disulfide	ND	0.0055		mg/Kg-dry	1	12/4/2004
Carbon tetrachloride	ND	0.0055		mg/Kg-dry	1	12/4/2004
Chlorobenzene	ND	0.0055		mg/Kg-dry	1	12/4/2004
Chloroethane	ND	0.011		mg/Kg-dry	1	12/4/2004
Chloroform	ND	0.0055		mg/Kg-dry	1	12/4/2004
Chloromethane	ND	0.0055		mg/Kg-dry	1	12/4/2004
Dibromochloromethane	ND	0.0055		mg/Kg-dry	1	12/4/2004
1,1-Dichloroethane	ND	0.0055		mg/Kg-dry	1	12/4/2004
1,2-Dichloroethane	ND	0.0055		mg/Kg-dry	1	12/4/2004
1,1-Dichloroethene	ND	0.0055		mg/Kg-dry	1	12/4/2004
cis-1,2-Dichloroethene	ND	0.0055		mg/Kg-dry	1	12/4/2004
trans-1,2-Dichloroethene	ND	0.0055		mg/Kg-dry	1	12/4/2004
1,2-Dichloropropane	ND	0.0055		mg/Kg-dry	1	12/4/2004
cis-1,3-Dichloropropene	ND	0.0055		mg/Kg-dry	1	12/4/2004
trans-1,3-Dichloropropene	ND	0.0055		mg/Kg-dry	1	12/4/2004
Ethylbenzene	ND	0.0055		mg/Kg-dry	1	12/4/2004
2-Hexanone	ND	0.011		mg/Kg-dry	1	12/4/2004
4-Methyl-2-pentanone	ND	0.011		mg/Kg-dry	1	12/4/2004
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/4/2004
Methyl tert-butyl ether	ND	0.0055		mg/Kg-dry	1	12/4/2004
Styrene	ND	0.0055		mg/Kg-dry	1	12/4/2004
1,1,2,2-Tetrachloroethane	ND	0.0055		mg/Kg-dry	1	12/4/2004
Tetrachloroethene	ND	0.0055		mg/Kg-dry	1	12/4/2004
Toluene	ND	0.0055		mg/Kg-dry	1	12/4/2004
1,1,1-Trichloroethane	ND	0.0055		mg/Kg-dry	1	12/4/2004
1,1,2-Trichloroethane	ND	0.0055		mg/Kg-dry	1	12/4/2004
Trichloroethene	ND	0.0055		mg/Kg-dry	1	12/4/2004
Vinyl chloride	ND	0.0055		mg/Kg-dry	1	12/4/2004
Xylenes, Total	0.024	0.011		mg/Kg-dry	1	12/4/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB51-002
Lab Order:	0412027	**Tag Number:**	18-20'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/1/2004 12:40:00 PM
Lab ID:	0412027-004B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/6/2004**		Analyst: **JF**
TPH (Gasoline)	ND	25	*	mg/Kg-dry	1	12/7/2004
TPH (Diesel)	ND	25	*	mg/Kg-dry	1	12/7/2004
TPH (Oil)	30	25	*	mg/Kg-dry	1	12/7/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **VS**
Acenaphthene	2.4	0.31		mg/Kg-dry	10	12/6/2004
Acenaphthylene	0.47	0.31		mg/Kg-dry	10	12/6/2004
Anthracene	2.2	0.31		mg/Kg-dry	10	12/6/2004
Benz(a)anthracene	2.3	0.31		mg/Kg-dry	10	12/6/2004
Benzo(b)fluoranthene	1.2	0.31		mg/Kg-dry	10	12/6/2004
Benzo(k)fluoranthene	1.1	0.31		mg/Kg-dry	10	12/6/2004
Benzo(g,h,i)perylene	0.57	0.31		mg/Kg-dry	10	12/6/2004
Benzo(a)pyrene	1.7	0.31		mg/Kg-dry	10	12/6/2004
Chrysene	2	0.31		mg/Kg-dry	10	12/6/2004
Dibenz(a,h)anthracene	0.11	0.031		mg/Kg-dry	1	12/6/2004
Fluoranthene	3.7	3.1		mg/Kg-dry	100	12/7/2004
Fluorene	2.5	0.31		mg/Kg-dry	10	12/6/2004
Indeno(1,2,3-cd)pyrene	0.59	0.31		mg/Kg-dry	10	12/6/2004
Naphthalene	6.1	3.1		mg/Kg-dry	100	12/7/2004
Phenanthrene	7.6	3.1		mg/Kg-dry	100	12/7/2004
Pyrene	4.2	3.1		mg/Kg-dry	100	12/7/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.41		mg/Kg-dry	1	12/8/2004
Bis(2-chloroethyl)ether	ND	0.41		mg/Kg-dry	1	12/8/2004
Bis(2-ethylhexyl)phthalate	ND	0.41		mg/Kg-dry	1	12/8/2004
4-Bromophenyl phenyl ether	ND	0.41		mg/Kg-dry	1	12/8/2004
Butyl benzyl phthalate	ND	0.41		mg/Kg-dry	1	12/8/2004
Carbazole	ND	0.41		mg/Kg-dry	1	12/8/2004
4-Chloro-3-methylphenol	ND	0.41		mg/Kg-dry	1	12/8/2004
4-Chloroaniline	ND	0.41		mg/Kg-dry	1	12/8/2004
2-Chloronaphthalene	ND	0.41		mg/Kg-dry	1	12/8/2004
2-Chlorophenol	ND	0.41		mg/Kg-dry	1	12/8/2004
4-Chlorophenyl phenyl ether	ND	0.41		mg/Kg-dry	1	12/8/2004
Dibenzofuran	0.82	0.41		mg/Kg-dry	1	12/8/2004
1,2-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	12/8/2004
1,3-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	12/8/2004
1,4-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	12/8/2004
3,3´-Dichlorobenzidine	ND	0.82		mg/Kg-dry	1	12/8/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB51-002
Lab Order:	0412027	**Tag Number:**	18-20'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/1/2004 12:40:00 PM
Lab ID:	0412027-004B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/4/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.41		mg/Kg-dry	1	12/8/2004
Diethyl phthalate	ND	0.41		mg/Kg-dry	1	12/8/2004
Dimethyl phthalate	ND	0.41		mg/Kg-dry	1	12/8/2004
Di-n-butyl phthalate	ND	0.41		mg/Kg-dry	1	12/8/2004
2,4-Dimethylphenol	ND	0.41		mg/Kg-dry	1	12/8/2004
4,6-Dinitro-2-methylphenol	ND	2		mg/Kg-dry	1	12/8/2004
2,4-Dinitrophenol	ND	2		mg/Kg-dry	1	12/8/2004
2,4-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/8/2004
2,6-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/8/2004
Di-n-octyl phthalate	ND	0.41		mg/Kg-dry	1	12/8/2004
Hexachlorobenzene	ND	0.41		mg/Kg-dry	1	12/8/2004
Hexachlorobutadiene	ND	0.41		mg/Kg-dry	1	12/8/2004
Hexachlorocyclopentadiene	ND	0.41		mg/Kg-dry	1	12/8/2004
Hexachloroethane	ND	0.41		mg/Kg-dry	1	12/8/2004
Isophorone	ND	0.41		mg/Kg-dry	1	12/8/2004
2-Methylnaphthalene	4.5	0.41		mg/Kg-dry	1	12/8/2004
2-Methylphenol	ND	0.41		mg/Kg-dry	1	12/8/2004
4-Methylphenol	ND	0.41		mg/Kg-dry	1	12/8/2004
2-Nitroaniline	ND	2		mg/Kg-dry	1	12/8/2004
3-Nitroaniline	ND	2		mg/Kg-dry	1	12/8/2004
4-Nitroaniline	ND	2		mg/Kg-dry	1	12/8/2004
Nitrobenzene	ND	0.21		mg/Kg-dry	1	12/8/2004
2-Nitrophenol	ND	0.41		mg/Kg-dry	1	12/8/2004
4-Nitrophenol	ND	2		mg/Kg-dry	1	12/8/2004
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	12/8/2004
N-Nitrosodiphenylamine	ND	0.41		mg/Kg-dry	1	12/8/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.41		mg/Kg-dry	1	12/8/2004
Pentachlorophenol	ND	2		mg/Kg-dry	1	12/8/2004
Phenol	ND	0.41		mg/Kg-dry	1	12/8/2004
1,2,4-Trichlorobenzene	ND	0.41		mg/Kg-dry	1	12/8/2004
2,4,5-Trichlorophenol	ND	0.82		mg/Kg-dry	1	12/8/2004
2,4,6-Trichlorophenol	ND	0.41		mg/Kg-dry	1	12/8/2004
Percent Moisture	**D2974**			Prep Date: **12/1/2004**		Analyst: **RW**
Percent Moisture	20.79	0.01	*	wt%	1	12/2/2004

Qualifiers:
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Burns & McDonnell SINCE 1898

Request for Chemical Analysis and Chain of Custody Record

Document Control No: WSS-003-2004

Lab. Reference No. or Episode No.: 0412027

Burns & McDonnell Engineering
2601 W. 22nd St
Oak Brook, Illinois 60523
Phone: (630) 990-0300 Fax: (630) 990-0301

Attention: Diane Saftic

Laboratory: STAT
Address: 2201 West Campbell Park
City/State/Zip: Chicago, IL 60612
Telephone: (312) 563-0371

Project Number: 32088
Site Name: Willow Street Station - General Iron

Sample Number: Group or SWMU Name	Sample Number: Sample Point	Sample Number: Sample Designator	Sample Event: Round	Sample Event: Year	Sample Depth (in feet): From	Sample Depth (in feet): To	Sample Collected: Date	Sample Collected: Time	Sample Type: Matrix: Liquid	Solid	Gas	Number of Containers	Parameter/Method Code: TCL VOCs (8260)	TCL SVOCs (8270 SIM)	TPH (8015)	Remarks
WSS	SB47	001	1	2004	12	14	12/01/04	0805		X		4	X	X	X	PID = 1.8ppm
WSS	SB47	002	1	2004	16	18	12/01/04	0820		X		4	X	X	X	PID = 0.0ppm
WSS	SB51	001	1	2004	10	12	12/01/04	1155		X		4	X	X	X	PID = 25.0ppm
WSS	SB51	002	1	2004	18	20	12/01/04	1240		X		4	X	X	X	PID = 0.0ppm
	TB03								X			1	X			ALH

ALH
12-01-04

Sampler (signature): Amy Hanrahan

Sampler (signature):

Custody Seal Number: WSS-003-2004-001, WSS-003-2004-002

Special Instructions: SB51-002 - dirty sample
Standard TAT - 1 Cooler

Relinquished By (signature): 1. Amy Hanrahan
Date/Time: 12/01/04

Received By (signature):
Date/Time: 12-1-04 4:20

Relinquished By (signature): 2.
Date/Time: 12-01-04 1645

Received By (signature):
Date/Time: 12/1/04 1645

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 3°

Laboratory Comments:

061301 Form WCD-KC1-CH!

STAT Analysis Corporation

Sample Receipt Checklist

Client Name **B&M**

Date and Time Received: **12/1/2004**

Work Order Numbe **0412027**

Received by: JC

Checklist completed by: Jessica Court 12/1/04 (Signature / Date)

Reviewed by: ac 12/10/04 (Initials / Date)

Matrix:

Carrier name STAT Analysis

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 3 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - Samples properly preserved/ pH checked?	Yes ☐	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

STAT Analysis Corporation

Date: 15-Dec-04

CLIENT: Burns & McDonnell
Work Order: 0412027
Project: 32088, Willow Street Station- General Iron
Test No: SW5035/8260B **Matrix:** S

QC SUMMARY REPORT
SURROGATE RECOVERIES

Sample ID	BR4FBZ	BZMED8	DBFM	DCA12D4				
VBLK120404-2	108	101	98.4	113				
VLCS120404-2	103	100	101	105				
VLCSD120404-2	100	102	100	104				
0412027-002A	85.2	94.3	104	110				
0412027-004A	101	97.8	99.1	104				
0412027-003A	79.1	99.5	101	109				
VBLK120504-2	109	97.1	103	108				
VLCS120504-2	102	99.9	102	97.9				
VLCSD120504-2	102	98.5	103	104				
0412027-003A:50	103	103	106	104				
0412027-001A	89.6	98.0	97.7	99.0				

Acronym		Surrogate	QC Limits
BR4FBZ	=	4-Bromofluorobenzene	63-110
BZMED8	=	Toluene-d8	85-110
DBFM	=	Dibromofluoromethane	83-119
DCA12D4	=	1,2-Dichloroethane-d4	84-129

*** Surrogate recovery outside acceptance limits**

1

STAT Analysis Corporation

Date: 15-Dec-04

CLIENT: Burns & McDonnell
Work Order: 0412027
Project: 32088, Willow Street Station- General Iron
Test No: SW8270C **Matrix:** S

QC SUMMARY REPORT
SURROGATE RECOVERIES

Sample ID	CLPH2D4	DCBZ12D4	NO2BZD5	PH246BR	PH2F	PHD5	PHEN2F	PHEND14
MB-12089-SVOC	73.1	67.0	81.0	82.4	75.3	84.4	69.8	81.7
LCS-12089-SVOC	74.3	69.0	83.7	75.0	78.0	86.6	71.9	80.2
0412056-006BMS	78.2	76.4	91.6	75.6	78.0	86.1	77.8	85.2
0412056-006BMSD	76.8	73.5	89.9	85.0	74.8	84.9	81.2	93.0
0412027-002B	66.0	61.1	77.3	69.4	68.0	77.2	67.2	81.2
0412027-003B	66.8	88.4	78.3	88.4	58.3	77.0	120 *	110
0412027-001B	68.2	63.2	80.9	81.0	63.5	80.1	86.9	96.5
0412027-004B	71.4	66.9	88.1	62.2	66.6	84.8	81.9	77.4

Acronym		Surrogate	QC Limits
CLPH2D4	=	2-Chlorophenol-d4	20-130
DCBZ12D4	=	1,2-Dichlorobenzene-d4	20-130
NO2BZD5	=	Nitrobenzene-d5	23-120
PH246BR	=	2,4,6-Tribromophenol	19-122
PH2F	=	2-Fluorophenol	25-121
PHD5	=	Phenol-d5	24-113
PHEN2F	=	2-Fluorobiphenyl	30-115
PHEND14	=	4-Terphenyl-d14	18-137

*** Surrogate recovery outside acceptance limits**

1

Prep Start Date: **12/4/2004 9:15:43 A**
Prep End Date: **12/4/2004 3:02:26 P**

Prep Batch **12089** Prep Code: **3550_SVOC** Technician: **JT**

Prep Factor Units: **mL / Kg**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
0412018-001B	Soil		0.03011	0	0	1	33.212	12/4/2004	12/4/2004
0412018-002B	Soil		0.03062	0	0	1	32.658	12/4/2004	12/4/2004
0412018-003B	Soil		0.03061	0	0	1	32.669	12/4/2004	12/4/2004
0412018-004B	Soil		0.03069	0	0	1	32.584	12/4/2004	12/4/2004
0412018-005B	Soil		0.03029	0	0	1	33.014	12/4/2004	12/4/2004
0412018-006B	Soil		0.03043	0	0	1	32.862	12/4/2004	12/4/2004
0412018-007B	Soil		0.03062	0	0	1	32.658	12/4/2004	12/4/2004
0412027-001B	Soil		0.03084	0	0	1	32.425	12/4/2004	12/4/2004
0412027-002B	Soil		0.03055	0	0	1	32.733	12/4/2004	12/4/2004
0412027-003B	Soil		0.03036	0	0	1	32.938	12/4/2004	12/4/2004
0412027-004B	Soil		0.03037	0	0	1	32.927	12/4/2004	12/4/2004
0412056-001B	Soil		0.03074	0	0	1	32.531	12/4/2004	12/4/2004
0412056-002B	Soil		0.03081	0	0	1	32.457	12/4/2004	12/4/2004
0412056-003B	Soil		0.03026	0	0	1	33.047	12/4/2004	12/4/2004
0412056-005B	Soil		0.03028	0	0	1	33.025	12/4/2004	12/4/2004
0412056-006B	Soil		0.03052	0	0	1	32.765	12/4/2004	12/4/2004
0412056-006BMS	Soil		0.03069	0	0	1	32.584	12/4/2004	12/4/2004
0412056-006BMSD	Soil		0.03058	0	0	1	32.701	12/4/2004	12/4/2004
0412056-007B	Soil		0.03021	0	0	1	33.102	12/4/2004	12/4/2004
0412056-008B	Soil		0.03052	0	0	1	32.765	12/4/2004	12/4/2004
LCS-12089-SVOC			0.03	0	0	1	33.333	12/4/2004	12/4/2004
MB-12089-SVOC			0.03	0	0	1	33.333	12/4/2004	12/4/2004

STAT Analysis Corporation

Date: 15-Dec-04

CLIENT: Burns & McDonnell
Work Order: 0412027
Project: 32088, Willow Street Station- General Iron
Test No: SW8270C-SIM **Matrix:** S

QC SUMMARY REPORT
SURROGATE RECOVERIES

Sample ID	DCBZ12D4	NO2BZD5	PHEN2F	PHEND14				
MB-12088-PNA	71.3	79.8	79.2	88.8				
LCS-12088-PNA	66.1	80.2	75.8	94.6				
0412056-003BMS	70.3	86.4	80.2	96.8				
0412056-003BMSD	70.5	90.0	85.0	101				
0412027-003B	52.6	77.8	76.1	86.3				
0412027-002B	64.0	78.9	59.7	62.1				
0412027-004B	67.3	86.6	59.1	52.0				
0412027-001B	65.1	82.4	91.4	82.4				

Acronym		Surrogate	QC Limits
DCBZ12D4	=	1,2-Dichlorobenzene-d4	20-130
NO2BZD5	=	Nitrobenzene-d5	23-120
PHEN2F	=	2-Fluorobiphenyl	30-115
PHEND14	=	4-Terphenyl-d14	18-137

*** Surrogate recovery outside acceptance limits**

1

Prep Start Date: **12/4/2004 9:10:34 A**
Prep End Date: **12/4/2004 3:02:32 P**

Prep Batch **12088** Prep Code: **3550_PNA** Technician: **JT**

Prep Factor Units: **mL / Kg**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
0412018-001B	Soil		0.03011	0	0	1	33.212	12/4/2004	12/4/2004
0412018-002B	Soil		0.03062	0	0	1	32.658	12/4/2004	12/4/2004
0412018-003B	Soil		0.03061	0	0	1	32.669	12/4/2004	12/4/2004
0412018-004B	Soil		0.03069	0	0	1	32.584	12/4/2004	12/4/2004
0412018-005B	Soil		0.03029	0	0	1	33.014	12/4/2004	12/4/2004
0412018-006B	Soil		0.03043	0	0	1	32.862	12/4/2004	12/4/2004
0412018-007B	Soil		0.03062	0	0	1	32.658	12/4/2004	12/4/2004
0412027-001B	Soil		0.03084	0	0	1	32.425	12/4/2004	12/4/2004
0412027-002B	Soil		0.03055	0	0	1	32.733	12/4/2004	12/4/2004
0412027-003B	Soil		0.03036	0	0	1	32.938	12/4/2004	12/4/2004
0412027-004B	Soil		0.03037	0	0	1	32.927	12/4/2004	12/4/2004
0412056-001B	Soil		0.03074	0	0	1	32.531	12/4/2004	12/4/2004
0412056-002B	Soil		0.03081	0	0	1	32.457	12/4/2004	12/4/2004
0412056-003B	Soil		0.03026	0	0	1	33.047	12/4/2004	12/4/2004
0412056-003BMS	Soil		0.03058	0	0	1	32.701	12/4/2004	12/4/2004
0412056-003BMSD	Soil		0.0303	0	0	1	33.003	12/4/2004	12/4/2004
0412056-005B	Soil		0.03028	0	0	1	33.025	12/4/2004	12/4/2004
0412056-006B	Soil		0.03052	0	0	1	32.765	12/4/2004	12/4/2004
0412056-007B	Soil		0.03021	0	0	1	33.102	12/4/2004	12/4/2004
0412056-008B	Soil		0.03052	0	0	1	32.765	12/4/2004	12/4/2004
LCS-12088-PNA			0.03	0	0	1	33.333	12/4/2004	12/4/2004
MB-12088-PNA			0.03	0	0	1	33.333	12/4/2004	12/4/2004

Prep Start Date: **12/6/2004 8:47:59 P**
Prep End Date:

Prep Batch **12118** Prep Code: **3580_TPH** Technician: **CDC**

Prep Factor Units: **mL / Kg**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
0412018-001B	Soil		0.00513	0	0	5	974.659	12/6/2004	12/7/2004
0412018-002B	Soil		0.00515	0	0	5	970.874	12/6/2004	12/7/2004
0412018-002BMS	Soil		0.00521	0	0	5	959.693	12/6/2004	12/7/2004
0412018-002BMSD	Soil		0.00503	0	0	5	994.036	12/6/2004	12/7/2004
0412018-003B	Soil		0.00523	0	0	5	956.023	12/6/2004	12/7/2004
0412018-004B	Soil		0.00545	0	0	5	917.431	12/6/2004	12/7/2004
0412018-005B	Soil		0.00539	0	0	5	927.644	12/6/2004	12/7/2004
0412018-006B	Soil		0.00518	0	0	5	965.251	12/6/2004	12/7/2004
0412018-007B	Soil		0.00522	0	0	5	957.854	12/6/2004	12/7/2004
0412027-001B	Soil		0.00519	0	0	5	963.391	12/6/2004	12/7/2004
0412027-002B	Soil		0.00513	0	0	5	974.659	12/6/2004	12/7/2004
0412027-003B	Soil		0.00511	0	0	5	978.474	12/6/2004	12/7/2004
0412027-004B	Soil		0.00504	0	0	5	992.063	12/6/2004	12/7/2004
0412102-006B	Soil		0.00525	0	0	5	952.381	12/7/2004	12/8/2004
0412102-024B	Soil		0.00506	0	0	5	988.142	12/7/2004	12/8/2004
0412102-026B	Soil		0.00514	0	0	5	972.763	12/7/2004	12/8/2004
0412134-001A	Soil		0.0054	0	0	5	925.926	12/6/2004	12/7/2004
0412138-001B	Soil		0.00534	0	0	5	936.330	12/7/2004	12/8/2004
LCS-12118-TPH			0.005	0	0	5	1000.000	12/6/2004	12/7/2004
MB-12118-TPH			0.005	0	0	5	1000.000	12/6/2004	12/7/2004

CLIENT: Burns & McDonnell
Work Order: 0412027
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12118

Sample ID	MB-12118-TPH	SampType:	MBLK	TestCode:	TPH	Units:	mg/Kg	Prep Date:	12/6/2004	Run ID:	GC-FID_041207A
Client ID:	ZZZZZ	Batch ID:	12118	TestNo:	SW8015M			Analysis Date:	12/7/2004	SeqNo:	319478

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	ND	20									*
TPH (Diesel)	ND	20									*
TPH (Oil)	ND	20									*

Sample ID	LCS-12118-TPH	SampType:	LCS	TestCode:	TPH	Units:	mg/Kg	Prep Date:	12/6/2004	Run ID:	GC-FID_041207A
Client ID:	ZZZZZ	Batch ID:	12118	TestNo:	SW8015M			Analysis Date:	12/7/2004	SeqNo:	319479

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	178.4	20	200	0	89.2	30	150	0	0		*
TPH (Diesel)	244.7	20	200	0	122	30	150	0	0		*
TPH (Oil)	287.6	20	200	0	144	30	150	0	0		*

Sample ID	0412018-002BMS	SampType:	MS	TestCode:	TPH	Units:	mg/Kg-dry	Prep Date:	12/6/2004	Run ID:	GC-FID_041207A
Client ID:	ZZZZZ	Batch ID:	12118	TestNo:	SW8015M			Analysis Date:	12/8/2004	SeqNo:	319491

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	254.4	23	350.4	5.641	71	30	150	0	0		*
TPH (Diesel)	379.4	23	350.4	4.202	107	30	150	0	0		*
TPH (Oil)	464.9	23	350.4	16.57	128	30	150	0	0		*

Sample ID	0412018-002BMSD	SampType:	MSD	TestCode:	TPH	Units:	mg/Kg-dry	Prep Date:	12/6/2004	Run ID:	GC-FID_041207A
Client ID:	ZZZZZ	Batch ID:	12118	TestNo:	SW8015M			Analysis Date:	12/8/2004	SeqNo:	319492

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	247.5	24	362.9	5.641	66.6	30	150	254.4	2.76	25	*
TPH (Diesel)	365.2	24	362.9	4.202	99.5	30	150	379.4	3.82	25	*
TPH (Oil)	445	24	362.9	16.57	118	30	150	464.9	4.38	25	*

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412027
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12088

Sample ID **MB-12088-PNA** SampType: **MBLK** TestCode: **PNA_SOIL** Units: **mg/Kg** Prep Date: **12/4/2004** Run ID: **SVOC-3_041205A**
Client ID: **ZZZZZ** Batch ID: **12088** TestNo: **SW8270C-SI** Analysis Date: **12/5/2004** SeqNo: **317931**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.025									
Acenaphthylene	ND	0.025									
Anthracene	ND	0.025									
Benz(a)anthracene	ND	0.025									
Benzo(a)pyrene	ND	0.025									
Benzo(b)fluoranthene	ND	0.025									
Benzo(g,h,i)perylene	ND	0.025									
Benzo(k)fluoranthene	ND	0.025									
Chrysene	ND	0.025									
Dibenz(a,h)anthracene	ND	0.025									
Fluoranthene	ND	0.025									
Fluorene	ND	0.025									
Indeno(1,2,3-cd)pyrene	ND	0.025									
Naphthalene	ND	0.025									
Phenanthrene	ND	0.025									
Pyrene	ND	0.025									

Sample ID **LCS-12088-PNA** SampType: **LCS** TestCode: **PNA_SOIL** Units: **mg/Kg** Prep Date: **12/4/2004** Run ID: **SVOC-3_041205A**
Client ID: **ZZZZZ** Batch ID: **12088** TestNo: **SW8270C-SI** Analysis Date: **12/5/2004** SeqNo: **317932**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.1157	0.025	0.167	0	69.3	30	130	0	0		
Acenaphthylene	0.1163	0.025	0.167	0	69.7	30	130	0	0		
Anthracene	0.1237	0.025	0.167	0	74.1	30	130	0	0		
Benz(a)anthracene	0.1427	0.025	0.167	0	85.4	30	130	0	0		
Benzo(a)pyrene	0.1447	0.025	0.167	0	86.6	30	130	0	0		
Benzo(b)fluoranthene	0.1613	0.025	0.167	0	96.6	30	130	0	0		
Benzo(g,h,i)perylene	0.1517	0.025	0.167	0	90.8	30	130	0	0		
Benzo(k)fluoranthene	0.132	0.025	0.167	0	79	30	130	0	0		
Chrysene	0.138	0.025	0.167	0	82.6	30	130	0	0		
Dibenz(a,h)anthracene	0.1547	0.025	0.167	0	92.6	30	130	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412027
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12088

Sample ID	LCS-12088-PNA	SampType:	LCS	TestCode:	PNA_SOIL	Units:	mg/Kg	Prep Date:	12/4/2004	Run ID:	SVOC-3_041205A
Client ID:	ZZZZZ	Batch ID:	12088	TestNo:	SW8270C-SI			Analysis Date:	12/5/2004	SeqNo:	317932

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	0.1387	0.025	0.167	0	83	30	130	0	0		
Fluorene	0.1283	0.025	0.167	0	76.8	30	130	0	0		
Indeno(1,2,3-cd)pyrene	0.152	0.025	0.167	0	91	30	130	0	0		
Naphthalene	0.1073	0.025	0.167	0	64.3	30	130	0	0		
Phenanthrene	0.1263	0.025	0.167	0	75.6	30	130	0	0		
Pyrene	0.1337	0.025	0.167	0	80	30	130	0	0		

Sample ID	0412056-003BMS	SampType:	MS	TestCode:	PNA_SOIL	Units:	mg/Kg-dry	Prep Date:	12/4/2004	Run ID:	SVOC-3_041206A
Client ID:	ZZZZZ	Batch ID:	12088	TestNo:	SW8270C-SI			Analysis Date:	12/6/2004	SeqNo:	318718

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.1521	0.030	0.2032	0	74.9	30	130	0	0		
Acenaphthylene	0.1546	0.030	0.2032	0	76	30	130	0	0		
Anthracene	0.1582	0.030	0.2032	0	77.8	30	130	0	0		
Benz(a)anthracene	0.1846	0.030	0.2032	0	90.8	30	130	0	0		
Benzo(a)pyrene	0.1911	0.030	0.2032	0	94	30	130	0	0		
Benzo(b)fluoranthene	0.1907	0.030	0.2032	0	93.8	30	130	0	0		
Benzo(g,h,i)perylene	0.202	0.030	0.2032	0	99.4	30	130	0	0		
Benzo(k)fluoranthene	0.1911	0.030	0.2032	0	94	30	130	0	0		
Chrysene	0.1801	0.030	0.2032	0	88.6	30	130	0	0		
Dibenz(a,h)anthracene	0.2049	0.030	0.2032	0	101	30	130	0	0		
Fluoranthene	0.1834	0.030	0.2032	0.01394	83.4	30	130	0	0		
Fluorene	0.1675	0.030	0.2032	0	82.4	30	130	0	0		
Indeno(1,2,3-cd)pyrene	0.2016	0.030	0.2032	0	99.2	30	130	0	0		
Naphthalene	0.1412	0.030	0.2032	0	69.5	30	130	0	0		
Phenanthrene	0.1675	0.030	0.2032	0.01927	73	30	130	0	0		
Pyrene	0.1761	0.030	0.2032	0.01066	81.4	30	130	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412027
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12088

Sample ID	**0412056-003BMSD**	SampType:	**MSD**	TestCode:	**PNA_SOIL**	Units:	**mg/Kg-dry**	Prep Date:	**12/4/2004**	Run ID:	**SVOC-3_041206A**
Client ID:	**ZZZZZ**	Batch ID:	**12088**	TestNo:	**SW8270C-SI**			Analysis Date:	**12/6/2004**	SeqNo:	**318719**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.1642	0.031	0.2051	0	80	30	130	0.1521	7.62	50	
Acenaphthylene	0.1646	0.031	0.2051	0	80.2	30	130	0.1546	6.28	50	
Anthracene	0.172	0.031	0.2051	0	83.8	30	130	0.1582	8.33	50	
Benz(a)anthracene	0.1871	0.031	0.2051	0	91.2	30	130	0.1846	1.36	50	
Benzo(a)pyrene	0.1904	0.031	0.2051	0	92.8	30	130	0.1911	0.362	50	
Benzo(b)fluoranthene	0.1928	0.031	0.2051	0	94	30	130	0.1907	1.13	50	
Benzo(g,h,i)perylene	0.2047	0.031	0.2051	0	99.8	30	130	0.202	1.32	50	
Benzo(k)fluoranthene	0.1924	0.031	0.2051	0	93.8	30	130	0.1911	0.707	50	
Chrysene	0.1822	0.031	0.2051	0	88.8	30	130	0.1801	1.14	50	
Dibenz(a,h)anthracene	0.2084	0.031	0.2051	0	102	30	130	0.2049	1.71	50	
Fluoranthene	0.1908	0.031	0.2051	0.01394	86.2	30	130	0.1834	3.97	50	
Fluorene	0.1838	0.031	0.2051	0	89.6	30	130	0.1675	9.27	50	
Indeno(1,2,3-cd)pyrene	0.2051	0.031	0.2051	0	100	30	130	0.2016	1.72	50	
Naphthalene	0.147	0.031	0.2051	0	71.7	30	130	0.1412	4.03	50	
Phenanthrene	0.1789	0.031	0.2051	0.01927	77.8	30	130	0.1675	6.57	50	
Pyrene	0.181	0.031	0.2051	0.01066	83	30	130	0.1761	2.75	50	

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CLIENT: Burns & McDonnell
Work Order: 0412027
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12089

Sample ID	**MB-12089-SVOC**	SampType:	**MBLK**	TestCode:	**SVOC_SOIL**	Units:	**mg/Kg**	Prep Date:	**12/4/2004**	Run ID:	**SVOC-2_041205A**
Client ID:	**ZZZZZ**	Batch ID:	**12089**	TestNo:	**SW8270C**			Analysis Date:	**12/5/2004**	SeqNo:	**318036**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	0.17									
1,2-Dichlorobenzene	ND	0.17									
1,3-Dichlorobenzene	ND	0.17									
1,4-Dichlorobenzene	ND	0.17									
2, 2'-oxybis(1-Chloropropane)	ND	0.17									
2,4,5-Trichlorophenol	ND	0.33									
2,4,6-Trichlorophenol	ND	0.17									
2,4-Dichlorophenol	ND	0.17									
2,4-Dimethylphenol	ND	0.17									
2,4-Dinitrophenol	ND	0.80									
2,4-Dinitrotoluene	ND	0.17									
2,6-Dinitrotoluene	ND	0.17									
2-Chloronaphthalene	ND	0.17									
2-Chlorophenol	ND	0.17									
2-Methylnaphthalene	ND	0.17									
2-Methylphenol	ND	0.17									
2-Nitroaniline	ND	0.80									
2-Nitrophenol	ND	0.17									
3,3´-Dichlorobenzidine	ND	0.33									
3-Nitroaniline	ND	0.80									
4,6-Dinitro-2-methylphenol	ND	0.80									
4-Bromophenyl phenyl ether	ND	0.17									
4-Chloro-3-methylphenol	ND	0.17									
4-Chloroaniline	ND	0.17									
4-Chlorophenyl phenyl ether	ND	0.17									
4-Methylphenol	ND	0.17									
4-Nitroaniline	ND	0.80									
4-Nitrophenol	ND	0.80									
Acenaphthene	ND	0.17									
Acenaphthylene	ND	0.17									
Aniline	ND	0.17									

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CLIENT: Burns & McDonnell
Work Order: 0412027
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12089

Sample ID	**MB-12089-SVOC**	SampType:	**MBLK**	TestCode:	**SVOC_SOIL**	Units:	**mg/Kg**	Prep Date:	**12/4/2004**	Run ID:	**SVOC-2_041205A**
Client ID:	**ZZZZZ**	Batch ID:	**12089**	TestNo:	**SW8270C**			Analysis Date:	**12/5/2004**	SeqNo:	**318036**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	ND	0.17									
Benz(a)anthracene	ND	0.17									
Benzidine	ND	0.17									
Benzo(a)pyrene	ND	0.17									
Benzo(b)fluoranthene	ND	0.17									
Benzo(g,h,i)perylene	ND	0.17									
Benzo(k)fluoranthene	ND	0.17									
Benzoic acid	ND	0.80									
Benzyl alcohol	ND	0.17									
Bis(2-chloroethoxy)methane	ND	0.17									
Bis(2-chloroethyl)ether	ND	0.17									
Bis(2-ethylhexyl)phthalate	ND	0.17									
Butyl benzyl phthalate	ND	0.17									
Carbazole	ND	0.17									
Chrysene	ND	0.17									
Di-n-butyl phthalate	ND	0.17									
Di-n-octyl phthalate	ND	0.17									
Dibenz(a,h)anthracene	ND	0.17									
Dibenzofuran	ND	0.17									
Diethyl phthalate	ND	0.17									
Dimethyl phthalate	ND	0.17									
Fluoranthene	ND	0.17									
Fluorene	ND	0.17									
Hexachlorobenzene	ND	0.17									
Hexachlorobutadiene	ND	0.17									
Hexachlorocyclopentadiene	ND	0.17									
Hexachloroethane	ND	0.17									
Indeno(1,2,3-cd)pyrene	ND	0.17									
Isophorone	ND	0.17									
N-Nitrosodi-n-propylamine	ND	0.17									
N-Nitrosodimethylamine	ND	0.17									

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CLIENT: Burns & McDonnell
Work Order: 0412027
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12089

Sample ID	MB-12089-SVOC	SampType:	MBLK	TestCode:	SVOC_SOIL	Units:	mg/Kg	Prep Date:	12/4/2004	Run ID:	SVOC-2_041205A
Client ID:	ZZZZZ	Batch ID:	12089	TestNo:	SW8270C			Analysis Date:	12/5/2004	SeqNo:	318036

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
N-Nitrosodiphenylamine	ND	0.17									
Naphthalene	ND	0.17									
Nitrobenzene	ND	0.17									
Pentachlorophenol	ND	0.80									
Phenanthrene	ND	0.17									
Phenol	ND	0.17									
Pyrene	ND	0.17									
Pyridine	ND	0.17									

Sample ID	LCS-12089-SVOC	SampType:	LCS	TestCode:	SVOC_SOIL	Units:	mg/Kg	Prep Date:	12/4/2004	Run ID:	SVOC-2_041205A
Client ID:	ZZZZZ	Batch ID:	12089	TestNo:	SW8270C			Analysis Date:	12/5/2004	SeqNo:	318037

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.204	0.17	1.667	0	72.2	55	106	0	0		
1,4-Dichlorobenzene	1.149	0.17	1.667	0	68.9	55	90	0	0		
2,4-Dinitrotoluene	1.307	0.17	1.667	0	78.4	55	101	0	0		
2-Chlorophenol	2.424	0.17	3.333	0	72.7	61	91	0	0		
4-Chloro-3-methylphenol	2.869	0.17	3.333	0	86.1	62	100	0	0		
4-Nitrophenol	2.909	0.80	3.333	0	87.3	53	123	0	0		
Acenaphthene	1.306	0.17	1.667	0	78.4	65	101	0	0		
N-Nitrosodi-n-propylamine	1.494	0.17	1.667	0	89.6	55	100	0	0		
Pentachlorophenol	2.87	0.80	3.333	0	86.1	40	120	0	0		
Phenol	2.927	0.17	3.333	0	87.8	60	91	0	0		
Pyrene	1.317	0.17	1.667	0	79	50	131	0	0		

Sample ID	0412056-006BMS	SampType:	MS	TestCode:	SVOC_SOIL	Units:	mg/Kg-dry	Prep Date:	12/4/2004	Run ID:	SVOC-2_041205A
Client ID:	ZZZZZ	Batch ID:	12089	TestNo:	SW8270C			Analysis Date:	12/5/2004	SeqNo:	318043

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.725	0.21	2.102	0	82	55	106	0	0		
1,4-Dichlorobenzene	1.671	0.21	2.102	0	79.5	55	90	0	0		

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CLIENT: Burns & McDonnell
Work Order: 0412027
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12089

Sample ID **0412056-006BMS** SampType: **MS** TestCode: **SVOC_SOIL** Units: **mg/Kg-dry** Prep Date: **12/4/2004** Run ID: **SVOC-2_041205A**
Client ID: **ZZZZZ** Batch ID: **12089** TestNo: **SW8270C** Analysis Date: **12/5/2004** SeqNo: **318043**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	1.845	0.21	2.102	0	87.8	55	101	0	0		
2-Chlorophenol	3.319	0.21	4.203	0	78.9	61	91	0	0		
4-Chloro-3-methylphenol	3.541	0.21	4.203	0	84.2	62	100	0	0		
4-Nitrophenol	3.775	1.0	4.203	0	89.8	53	123	0	0		
Acenaphthene	1.754	0.21	2.102	0	83.4	65	101	0	0		
N-Nitrosodi-n-propylamine	2.079	0.21	2.102	0	98.9	55	100	0	0		
Pentachlorophenol	3.67	1.0	4.203	0	87.3	40	120	0	0		
Phenol	3.741	0.21	4.203	0	89	60	91	0	0		
Pyrene	1.89	0.21	2.102	0	89.9	50	131	0	0		

Sample ID **0412056-006BMSD** SampType: **MSD** TestCode: **SVOC_SOIL** Units: **mg/Kg-dry** Prep Date: **12/4/2004** Run ID: **SVOC-2_041205A**
Client ID: **ZZZZZ** Batch ID: **12089** TestNo: **SW8270C** Analysis Date: **12/5/2004** SeqNo: **318044**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.72	0.22	2.11	0	81.5	55	106	1.725	0.277	23	
1,4-Dichlorobenzene	1.597	0.22	2.11	0	75.7	55	90	1.671	4.51	27	
2,4-Dinitrotoluene	2.046	0.22	2.11	0	97	55	101	1.845	10.3	47	
2-Chlorophenol	3.264	0.22	4.219	0	77.4	61	91	3.319	1.66	50	
4-Chloro-3-methylphenol	3.976	0.22	4.219	0	94.2	62	100	3.541	11.6	33	
4-Nitrophenol	4.233	1.0	4.219	0	100	53	123	3.775	11.4	50	
Acenaphthene	1.87	0.22	2.11	0	88.6	65	101	1.754	6.40	19	
N-Nitrosodi-n-propylamine	2.177	0.22	2.11	0	103	55	100	2.079	4.61	38	S
Pentachlorophenol	4.213	1.0	4.219	0	99.9	40	120	3.67	13.8	47	
Phenol	3.77	0.22	4.219	0	89.4	60	91	3.741	0.752	35	
Pyrene	2.052	0.22	2.11	0	97.2	50	131	1.89	8.20	36	

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CLIENT: Burns & McDonnell
Work Order: 0412027
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15505

Sample ID **VBLK120404-2** SampType: **MBLK** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041204A**
Client ID: **ZZZZZ** Batch ID: **R15505** TestNo: **SW5035/8260** Analysis Date: **12/4/2004** SeqNo: **317835**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.0050									
1,1,2,2-Tetrachloroethane	ND	0.0050									
1,1,2-Trichloroethane	ND	0.0050									
1,1-Dichloroethane	ND	0.0050									
1,1-Dichloroethene	ND	0.0050									
1,2-Dichloroethane	ND	0.0050									
1,2-Dichloropropane	ND	0.0050									
2-Butanone	ND	0.010									
2-Hexanone	ND	0.010									
4-Methyl-2-pentanone	ND	0.010									
Acetone	ND	0.025									
Benzene	ND	0.0050									
Bromodichloromethane	ND	0.0050									
Bromoform	ND	0.0050									
Bromomethane	ND	0.010									
Carbon disulfide	ND	0.0050									
Carbon tetrachloride	ND	0.0050									
Chlorobenzene	ND	0.0050									
Chloroethane	ND	0.010									
Chloroform	ND	0.0050									
Chloromethane	ND	0.010									
cis-1,2-Dichloroethene	ND	0.0050									
cis-1,3-Dichloropropene	ND	0.0050									
Dibromochloromethane	ND	0.0050									
Ethylbenzene	ND	0.0050									
Methyl tert-butyl ether	ND	0.0050									
Methylene chloride	0.00263	0.010									J
Styrene	ND	0.0050									
Tetrachloroethene	ND	0.0050									
Toluene	ND	0.0050									
trans-1,2-Dichloroethene	ND	0.0050									

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CLIENT: Burns & McDonnell
Work Order: 0412027
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15505

Sample ID	VBLK120404-2	SampType:	MBLK	TestCode:	VOC_ENCOR	Units:	mg/Kg	Prep Date:		Run ID:	VOA-2_041204A
Client ID:	ZZZZZ	Batch ID:	R15505	TestNo:	SW5035/8260			Analysis Date:	12/4/2004	SeqNo:	317835

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	ND	0.0050									
Trichloroethene	ND	0.0050									
Vinyl chloride	ND	0.0050									
Xylenes, Total	ND	0.010									

Sample ID	VLCS120404-2	SampType:	LCS	TestCode:	VOC_ENCOR	Units:	mg/Kg	Prep Date:		Run ID:	VOA-2_041204A
Client ID:	ZZZZZ	Batch ID:	R15505	TestNo:	SW5035/8260			Analysis Date:	12/4/2004	SeqNo:	317836

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.05001	0.0050	0.05	0	100	70	130	0	0		
1,1,2,2-Tetrachloroethane	0.04472	0.0050	0.05	0	89.4	70	130	0	0		
1,1,2-Trichloroethane	0.04713	0.0050	0.05	0	94.3	70	130	0	0		
1,1-Dichloroethane	0.04661	0.0050	0.05	0	93.2	70	130	0	0		
1,1-Dichloroethene	0.04801	0.0050	0.05	0	96	70	130	0	0		
1,2-Dichloroethane	0.0467	0.0050	0.05	0	93.4	70	130	0	0		
1,2-Dichloropropane	0.04582	0.0050	0.05	0	91.6	70	130	0	0		
2-Butanone	0.04905	0.010	0.05	0	98.1	70	130	0	0		
2-Hexanone	0.04717	0.010	0.05	0	94.3	70	130	0	0		
4-Methyl-2-pentanone	0.04825	0.010	0.05	0	96.5	70	130	0	0		
Acetone	0.05607	0.025	0.05	0	112	50	150	0	0		
Benzene	0.04851	0.0050	0.05	0	97	70	130	0	0		
Bromodichloromethane	0.04391	0.0050	0.05	0	87.8	70	130	0	0		
Bromoform	0.04642	0.0050	0.05	0	92.8	70	130	0	0		
Bromomethane	0.03593	0.010	0.05	0	71.9	70	130	0	0		
Carbon disulfide	0.06304	0.0050	0.05	0	126	70	130	0	0		
Carbon tetrachloride	0.04955	0.0050	0.05	0	99.1	70	130	0	0		
Chlorobenzene	0.04974	0.0050	0.05	0	99.5	70	130	0	0		
Chloroethane	0.04898	0.010	0.05	0	98	70	130	0	0		
Chloroform	0.04742	0.0050	0.05	0	94.8	70	130	0	0		
Chloromethane	0.03727	0.010	0.05	0	74.5	70	130	0	0		
cis-1,2-Dichloroethene	0.04695	0.0050	0.05	0	93.9	70	130	0	0		

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ANALYTICAL QC SUMMARY REPORT

BatchID: R15505

Sample ID **VLCS120404-2** SampType: **LCS** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041204A**
Client ID: **ZZZZZ** Batch ID: **R15505** TestNo: **SW5035/8260** Analysis Date: **12/4/2004** SeqNo: **317836**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	0.04625	0.0050	0.05	0	92.5	70	130	0	0		
Dibromochloromethane	0.04791	0.0050	0.05	0	95.8	70	130	0	0		
Ethylbenzene	0.05	0.0050	0.05	0	100	70	130	0	0		
Methyl tert-butyl ether	0.04703	0.0050	0.05	0	94.1	50	150	0	0		
Methylene chloride	0.04639	0.010	0.05	0.00263	87.5	70	130	0	0		
Styrene	0.04879	0.0050	0.05	0	97.6	70	130	0	0		
Tetrachloroethene	0.05447	0.0050	0.05	0	109	70	130	0	0		
Toluene	0.04844	0.0050	0.05	0	96.9	70	130	0	0		
trans-1,2-Dichloroethene	0.04861	0.0050	0.05	0	97.2	70	130	0	0		
trans-1,3-Dichloropropene	0.05387	0.0050	0.05	0	108	70	130	0	0		
Trichloroethene	0.04919	0.0050	0.05	0	98.4	70	130	0	0		
Vinyl chloride	0.04859	0.0050	0.05	0	97.2	70	130	0	0		
Xylenes, Total	0.1588	0.010	0.15	0	106	70	130	0	0		

Sample ID **VLCSD120404-2** SampType: **LCSD** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041204A**
Client ID: **ZZZZZ** Batch ID: **R15505** TestNo: **SW5035/8260** Analysis Date: **12/4/2004** SeqNo: **317837**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.04873	0.0050	0.05	0	97.5	70	130	0.05001	2.59	20	
1,1,2,2-Tetrachloroethane	0.04452	0.0050	0.05	0	89	70	130	0.04472	0.448	20	
1,1,2-Trichloroethane	0.04694	0.0050	0.05	0	93.9	70	130	0.04713	0.404	20	
1,1-Dichloroethane	0.04771	0.0050	0.05	0	95.4	70	130	0.04661	2.33	20	
1,1-Dichloroethene	0.04765	0.0050	0.05	0	95.3	70	130	0.04801	0.753	20	
1,2-Dichloroethane	0.04895	0.0050	0.05	0	97.9	70	130	0.0467	4.70	20	
1,2-Dichloropropane	0.04841	0.0050	0.05	0	96.8	70	130	0.04582	5.50	20	
2-Butanone	0.04638	0.010	0.05	0	92.8	70	130	0.04905	5.60	20	
2-Hexanone	0.04873	0.010	0.05	0	97.5	70	130	0.04717	3.25	20	
4-Methyl-2-pentanone	0.05153	0.010	0.05	0	103	70	130	0.04825	6.57	20	
Acetone	0.06114	0.025	0.05	0	122	50	150	0.05607	8.65	20	
Benzene	0.04839	0.0050	0.05	0	96.8	70	130	0.04851	0.248	20	
Bromodichloromethane	0.04538	0.0050	0.05	0	90.8	70	130	0.04391	3.29	20	

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CLIENT: Burns & McDonnell
Work Order: 0412027
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15505

Sample ID **VLCSD120404-2** SampType: **LCSD** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041204A**
Client ID: **ZZZZZ** Batch ID: **R15505** TestNo: **SW5035/8260** Analysis Date: **12/4/2004** SeqNo: **317837**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	0.04739	0.0050	0.05	0	94.8	70	130	0.04642	2.07	20	
Bromomethane	0.03774	0.010	0.05	0	75.5	70	130	0.03593	4.91	20	
Carbon disulfide	0.06289	0.0050	0.05	0	126	70	130	0.06304	0.238	20	
Carbon tetrachloride	0.0488	0.0050	0.05	0	97.6	70	130	0.04955	1.53	20	
Chlorobenzene	0.0494	0.0050	0.05	0	98.8	70	130	0.04974	0.686	20	
Chloroethane	0.04921	0.010	0.05	0	98.4	70	130	0.04898	0.468	20	
Chloroform	0.04836	0.0050	0.05	0	96.7	70	130	0.04742	1.96	20	
Chloromethane	0.03875	0.010	0.05	0	77.5	70	130	0.03727	3.89	20	
cis-1,2-Dichloroethene	0.04887	0.0050	0.05	0	97.7	70	130	0.04695	4.01	20	
cis-1,3-Dichloropropene	0.04814	0.0050	0.05	0	96.3	70	130	0.04625	4.00	20	
Dibromochloromethane	0.04889	0.0050	0.05	0	97.8	70	130	0.04791	2.02	20	
Ethylbenzene	0.04987	0.0050	0.05	0	99.7	70	130	0.05	0.260	20	
Methyl tert-butyl ether	0.05001	0.0050	0.05	0	100	50	150	0.04703	6.14	20	
Methylene chloride	0.04692	0.010	0.05	0.00263	88.6	70	130	0.04639	1.14	20	
Styrene	0.04789	0.0050	0.05	0	95.8	70	130	0.04879	1.86	20	
Tetrachloroethene	0.05277	0.0050	0.05	0	106	70	130	0.05447	3.17	20	
Toluene	0.04944	0.0050	0.05	0	98.9	70	130	0.04844	2.04	20	
trans-1,2-Dichloroethene	0.0501	0.0050	0.05	0	100	70	130	0.04861	3.02	20	
trans-1,3-Dichloropropene	0.05307	0.0050	0.05	0	106	70	130	0.05387	1.50	20	
Trichloroethene	0.04933	0.0050	0.05	0	98.7	70	130	0.04919	0.284	20	
Vinyl chloride	0.0497	0.0050	0.05	0	99.4	70	130	0.04859	2.26	20	
Xylenes, Total	0.1546	0.010	0.15	0	103	70	130	0.1588	2.70	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412027
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15510

Sample ID **VBLK120504-2** SampType: **MBLK** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041205A**
Client ID: **ZZZZZ** Batch ID: **R15510** TestNo: **SW5035/8260** Analysis Date: **12/5/2004** SeqNo: **317893**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.0050									
1,1,2,2-Tetrachloroethane	ND	0.0050									
1,1,2-Trichloroethane	ND	0.0050									
1,1-Dichloroethane	ND	0.0050									
1,1-Dichloroethene	ND	0.0050									
1,2-Dichloroethane	ND	0.0050									
1,2-Dichloropropane	ND	0.0050									
2-Butanone	ND	0.010									
2-Hexanone	ND	0.010									
4-Methyl-2-pentanone	ND	0.010									
Acetone	ND	0.025									
Benzene	ND	0.0050									
Bromodichloromethane	ND	0.0050									
Bromoform	ND	0.0050									
Bromomethane	ND	0.010									
Carbon disulfide	ND	0.0050									
Carbon tetrachloride	ND	0.0050									
Chlorobenzene	ND	0.0050									
Chloroethane	ND	0.010									
Chloroform	ND	0.0050									
Chloromethane	ND	0.010									
cis-1,2-Dichloroethene	ND	0.0050									
cis-1,3-Dichloropropene	ND	0.0050									
Dibromochloromethane	ND	0.0050									
Ethylbenzene	ND	0.0050									
Methyl tert-butyl ether	ND	0.0050									
Methylene chloride	0.00139	0.010									J
Styrene	ND	0.0050									
Tetrachloroethene	ND	0.0050									
Toluene	ND	0.0050									
trans-1,2-Dichloroethene	ND	0.0050									

Qualifiers:
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R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

Sample ID	VBLK120504-2	SampType:	MBLK	TestCode:	VOC_ENCOR	Units:	mg/Kg	Prep Date:		Run ID:	VOA-2_041205A
Client ID:	ZZZZZ	Batch ID:	R15510	TestNo:	SW5035/8260			Analysis Date:	12/5/2004	SeqNo:	317893

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	ND	0.0050									
Trichloroethene	ND	0.0050									
Vinyl chloride	ND	0.0050									
Xylenes, Total	ND	0.010									

Sample ID	VLCS120504-2	SampType:	LCS	TestCode:	VOC_ENCOR	Units:	mg/Kg	Prep Date:		Run ID:	VOA-2_041205A
Client ID:	ZZZZZ	Batch ID:	R15510	TestNo:	SW5035/8260			Analysis Date:	12/5/2004	SeqNo:	317894

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.05018	0.0050	0.05	0	100	70	130	0	0		
1,1,2,2-Tetrachloroethane	0.04199	0.0050	0.05	0	84	70	130	0	0		
1,1,2-Trichloroethane	0.0474	0.0050	0.05	0	94.8	70	130	0	0		
1,1-Dichloroethane	0.04887	0.0050	0.05	0	97.7	70	130	0	0		
1,1-Dichloroethene	0.04892	0.0050	0.05	0	97.8	70	130	0	0		
1,2-Dichloroethane	0.04739	0.0050	0.05	0	94.8	70	130	0	0		
1,2-Dichloropropane	0.04603	0.0050	0.05	0	92.1	70	130	0	0		
2-Butanone	0.04513	0.010	0.05	0	90.3	70	130	0	0		
2-Hexanone	0.04515	0.010	0.05	0	90.3	70	130	0	0		
4-Methyl-2-pentanone	0.04566	0.010	0.05	0	91.3	70	130	0	0		
Acetone	0.06161	0.025	0.05	0	123	50	150	0	0		
Benzene	0.04711	0.0050	0.05	0	94.2	70	130	0	0		
Bromodichloromethane	0.04305	0.0050	0.05	0	86.1	70	130	0	0		
Bromoform	0.04622	0.0050	0.05	0	92.4	70	130	0	0		
Bromomethane	0.03514	0.010	0.05	0	70.3	70	130	0	0		
Carbon disulfide	0.06137	0.0050	0.05	0	123	70	130	0	0		
Carbon tetrachloride	0.04859	0.0050	0.05	0	97.2	70	130	0	0		
Chlorobenzene	0.04881	0.0050	0.05	0	97.6	70	130	0	0		
Chloroethane	0.04886	0.010	0.05	0	97.7	70	130	0	0		
Chloroform	0.04879	0.0050	0.05	0	97.6	70	130	0	0		
Chloromethane	0.038	0.010	0.05	0	76	70	130	0	0		
cis-1,2-Dichloroethene	0.05012	0.0050	0.05	0	100	70	130	0	0		

Sample ID **VLCS120504-2**	SampType: **LCS**	TestCode: **VOC_ENCOR**	Units: **mg/Kg**	Prep Date:	Run ID: **VOA-2_041205A**
Client ID: **ZZZZZ**	Batch ID: **R15510**	TestNo: **SW5035/8260**		Analysis Date: **12/5/2004**	SeqNo: **317894**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	0.04727	0.0050	0.05	0	94.5	70	130	0	0		
Dibromochloromethane	0.0487	0.0050	0.05	0	97.4	70	130	0	0		
Ethylbenzene	0.04847	0.0050	0.05	0	96.9	70	130	0	0		
Methyl tert-butyl ether	0.04872	0.0050	0.05	0	97.4	50	150	0	0		
Methylene chloride	0.04823	0.010	0.05	0.00139	93.7	70	130	0	0		
Styrene	0.04622	0.0050	0.05	0	92.4	70	130	0	0		
Tetrachloroethene	0.0526	0.0050	0.05	0	105	70	130	0	0		
Toluene	0.04763	0.0050	0.05	0	95.3	70	130	0	0		
trans-1,2-Dichloroethene	0.05072	0.0050	0.05	0	101	70	130	0	0		
trans-1,3-Dichloropropene	0.05165	0.0050	0.05	0	103	70	130	0	0		
Trichloroethene	0.05031	0.0050	0.05	0	101	70	130	0	0		
Vinyl chloride	0.05024	0.0050	0.05	0	100	70	130	0	0		
Xylenes, Total	0.1518	0.010	0.15	0	101	70	130	0	0		

Sample ID **VLCSD120504-2**	SampType: **LCSD**	TestCode: **VOC_ENCOR**	Units: **mg/Kg**	Prep Date:	Run ID: **VOA-2_041205A**
Client ID: **ZZZZZ**	Batch ID: **R15510**	TestNo: **SW5035/8260**		Analysis Date: **12/5/2004**	SeqNo: **317895**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.05132	0.0050	0.05	0	103	70	130	0.05018	2.25	20	
1,1,2,2-Tetrachloroethane	0.04491	0.0050	0.05	0	89.8	70	130	0.04199	6.72	20	
1,1,2-Trichloroethane	0.04998	0.0050	0.05	0	100	70	130	0.0474	5.30	20	
1,1-Dichloroethane	0.04775	0.0050	0.05	0	95.5	70	130	0.04887	2.32	20	
1,1-Dichloroethene	0.0489	0.0050	0.05	0	97.8	70	130	0.04892	0.0409	20	
1,2-Dichloroethane	0.0493	0.0050	0.05	0	98.6	70	130	0.04739	3.95	20	
1,2-Dichloropropane	0.04699	0.0050	0.05	0	94	70	130	0.04603	2.06	20	
2-Butanone	0.05156	0.010	0.05	0	103	70	130	0.04513	13.3	20	
2-Hexanone	0.04682	0.010	0.05	0	93.6	70	130	0.04515	3.63	20	
4-Methyl-2-pentanone	0.04937	0.010	0.05	0	98.7	70	130	0.04566	7.81	20	
Acetone	0.05599	0.025	0.05	0	112	50	150	0.06161	9.56	20	
Benzene	0.0481	0.0050	0.05	0	96.2	70	130	0.04711	2.08	20	
Bromodichloromethane	0.04611	0.0050	0.05	0	92.2	70	130	0.04305	6.86	20	

CLIENT: Burns & McDonnell
Work Order: 0412027
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15510

Sample ID **VLCSD120504-2** SampType: **LCSD** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041205A**
Client ID: **ZZZZZ** Batch ID: **R15510** TestNo: **SW5035/8260** Analysis Date: **12/5/2004** SeqNo: **317895**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	0.05092	0.0050	0.05	0	102	70	130	0.04622	9.68	20	
Bromomethane	0.03729	0.010	0.05	0	74.6	70	130	0.03514	5.94	20	
Carbon disulfide	0.0633	0.0050	0.05	0	127	70	130	0.06137	3.10	20	
Carbon tetrachloride	0.05182	0.0050	0.05	0	104	70	130	0.04859	6.43	20	
Chlorobenzene	0.05096	0.0050	0.05	0	102	70	130	0.04881	4.31	20	
Chloroethane	0.04933	0.010	0.05	0	98.7	70	130	0.04886	0.957	20	
Chloroform	0.0495	0.0050	0.05	0	99	70	130	0.04879	1.44	20	
Chloromethane	0.0384	0.010	0.05	0	76.8	70	130	0.038	1.05	20	
cis-1,2-Dichloroethene	0.05085	0.0050	0.05	0	102	70	130	0.05012	1.45	20	
cis-1,3-Dichloropropene	0.04869	0.0050	0.05	0	97.4	70	130	0.04727	2.96	20	
Dibromochloromethane	0.05112	0.0050	0.05	0	102	70	130	0.0487	4.85	20	
Ethylbenzene	0.0511	0.0050	0.05	0	102	70	130	0.04847	5.28	20	
Methyl tert-butyl ether	0.05089	0.0050	0.05	0	102	50	150	0.04872	4.36	20	
Methylene chloride	0.04817	0.010	0.05	0.00139	93.6	70	130	0.04823	0.124	20	
Styrene	0.04986	0.0050	0.05	0	99.7	70	130	0.04622	7.58	20	
Tetrachloroethene	0.05527	0.0050	0.05	0	111	70	130	0.0526	4.95	20	
Toluene	0.04941	0.0050	0.05	0	98.8	70	130	0.04763	3.67	20	
trans-1,2-Dichloroethene	0.05097	0.0050	0.05	0	102	70	130	0.05072	0.492	20	
trans-1,3-Dichloropropene	0.05494	0.0050	0.05	0	110	70	130	0.05165	6.17	20	
Trichloroethene	0.05253	0.0050	0.05	0	105	70	130	0.05031	4.32	20	
Vinyl chloride	0.05152	0.0050	0.05	0	103	70	130	0.05024	2.52	20	
Xylenes, Total	0.1588	0.010	0.15	0	106	70	130	0.1518	4.50	20	

Qualifiers:
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R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
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CLIENT: Burns & McDonnell
Work Order: 0412027
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15449

Sample ID	SampType	TestCode	Units	Prep Date	Run ID
MBLK	**MBLK**	**PMOIST**	**wt%**	**12/1/2004**	**BALANCE_041201A**
Client ID: **ZZZZZ**	Batch ID: **R15449**	TestNo: **D2974**		Analysis Date: **12/2/2004**	SeqNo: **316714**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	ND	0.01000									*

Sample ID	SampType	TestCode	Units	Prep Date	Run ID
LCS-S	**LCS**	**PMOIST**	**wt%**	**12/1/2004**	**BALANCE_041201A**
Client ID: **ZZZZZ**	Batch ID: **R15449**	TestNo: **D2974**		Analysis Date: **12/2/2004**	SeqNo: **316715**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	4.96	0.01000	5	0	99.2	80	120	0	0		*

Sample ID	SampType	TestCode	Units	Prep Date	Run ID
LCS-W	**LCS**	**PMOIST**	**wt%**	**12/1/2004**	**BALANCE_041201A**
Client ID: **ZZZZZ**	Batch ID: **R15449**	TestNo: **D2974**		Analysis Date: **12/2/2004**	SeqNo: **316716**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	99.81	0.01000	99.8	0	100	80	120	0	0		*

Sample ID	SampType	TestCode	Units	Prep Date	Run ID
0412046-001A DUP	**DUP**	**PMOIST**	**wt%**	**12/2/2004**	**BALANCE_041201A**
Client ID: **ZZZZZ**	Batch ID: **R15449**	TestNo: **D2974**		Analysis Date: **12/3/2004**	SeqNo: **317440**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	17.38	0.01000	0	0	0	0	0	16.79	3.45	20	*

Qualifiers:
ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

STAT Analysis Corporation
2201 West Campbell Park Drive Chicago, IL 60612-3547
Tel: (312) 563-0371 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

December 15, 2004

Burns & McDonnell
2601 W. 22nd Street
OakBrook, IL 60523-1229
Telephone: (312) 563-0371
Fax: (630) 990-0301

RE: 32088, Willow Street Station- General Iron STAT Project No: 0412059

Dear Diane Saftic:

STAT Analysis received 12 samples for the referenced project on 12/2/2004. The analytical results are presented in the following report.

This report is revised to reflect changes made after the initial report was issued.

All analyses were performed in accordance with the requirements of 35 IAC part 186 (Accreditation #100445). Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Craig Chawla
Project Manager

STAT Analysis Corporation

Date: December 15, 2004

Client: Burns & McDonnell
Project: 32088, Willow Street Station- General Iron
Lab Order: 0412059

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0412059-001A	WSS-SB52-001	6-8'	12/2/2004 8:05:00 AM	12/2/2004
0412059-001B	WSS-SB52-001	6-8'	12/2/2004 8:05:00 AM	12/2/2004
0412059-002A	WSS-SB52-002	12-14'	12/2/2004 8:20:00 AM	12/2/2004
0412059-002B	WSS-SB52-002	12-14'	12/2/2004 8:20:00 AM	12/2/2004
0412059-003A	WSS-SB55-001	6-8'	12/2/2004 9:25:00 AM	12/2/2004
0412059-003B	WSS-SB55-001	6-8'	12/2/2004 9:25:00 AM	12/2/2004
0412059-004A	WSS-SB55-002	12-14'	12/2/2004 9:35:00 AM	12/2/2004
0412059-004B	WSS-SB55-002	12-14'	12/2/2004 9:35:00 AM	12/2/2004
0412059-005A	WSS-SB54-001	8-10'	12/2/2004 10:40:00 AM	12/2/2004
0412059-005B	WSS-SB54-001	8-10'	12/2/2004 10:40:00 AM	12/2/2004
0412059-006A	WSS-SB54-002	14-16'	12/2/2004 10:55:00 AM	12/2/2004
0412059-006B	WSS-SB54-002	14-16'	12/2/2004 10:55:00 AM	12/2/2004
0412059-007A	WSS-SB58-001	12-14'	12/2/2004 12:40:00 PM	12/2/2004
0412059-007B	WSS-SB58-001	12-14'	12/2/2004 12:40:00 PM	12/2/2004
0412059-008A	WSS-SB58-002	16-18'	12/2/2004 1:10:00 PM	12/2/2004
0412059-008B	WSS-SB58-002	16-18'	12/2/2004 1:10:00 PM	12/2/2004
0412059-009A	WSS-SB58-003	8-10'	12/2/2004 12:45:00 PM	12/2/2004
0412059-009B	WSS-SB58-003	8-10'	12/2/2004 12:45:00 PM	12/2/2004
0412059-010A	WSS-SB49B-001	14-16'	12/2/2004 2:10:00 PM	12/2/2004
0412059-010B	WSS-SB49B-001	14-16'	12/2/2004 2:10:00 PM	12/2/2004
0412059-011A	WSS-TB04A			12/2/2004
0412059-012A	WSS-TB04B			12/2/2004

STAT Analysis Corporation

Date: *December 15, 2004*

CLIENT: Burns & McDonnell
Project: 32088, Willow Street Station- General Iron
Lab Order: 0412059

CASE NARRATIVE

Due to matrix interference, the following samples had VOC surrogates out of control for both analysis and reanalysis:
Sample WSS-SB52-002 (0412059-002): Toluene-d8, 85%/81% recovery (QC Limits 85-110%)
Sample WSS-SB58-002 (0412059-008): Toluene-d8, 84%/85% recovery (QC Limits 85-110%)
Sample WSS-SB58-003 (0412059-009): 4-Bromofluorobenzene, 59%/53% recovery (QC Limits 63-110%)

Due to matrix interference, the following samples had high SVOC soil surrogate recoveries:
WSS-SB58-001 (0412059-007):
2,4,6-Tribromophenol: 127% Recovery, QC Limits 12-122%
WSS-SB58-003 (0412059-009):
2,4,6-Tribromophenol: 157% Recovery, QC Limits 19-122%
4-Terphenyl-d14: 195% Recovery, QC Limits 18-137%

Due to matrix interference, the MS/MSD prepared from sample WSS-SB58-001 (0412059-007) had the following SVOC soil spike compounds out of control:
4-Chloro-3-methylphenol: 109% Recovery, QC Limits 62-100% (MS)
Pentachlorophenol: 39% Recovery, QC Limits 40-120% (MSD)

Due to matrix interference, the MS/MSD prepared from sample WSS-SB58-002 (0412059-008) had the following SVOC soil spike compounds out of control:
N-Nitrosodi-n-propylamine: 105%/130% Recovery, QC Limits 55-100% (MS/MSD)
Pentachlorophenol: 18%/23% Recovery, QC Limits 40-120% (MS/MSD)
2-Chlorophenol: 92% Recovery, QC Limits 61-91% (MSD)
4-Chloro-3-methylphenol: 109% Recovery, QC Limits 62-100% (MSD)
Phenol: 106% Recovery, QC Limits 60-91% (MSD)

Due to matrix interference, the MS prepared from sample WSS-SB58-002 (0412059-008) had high PNA soil spike recovery for Naphthalene (150% Recovery, QC Limits 30-130%).

Due to the sample concentration being four times greater than the spike amount, the MS/MSD prepared from sample WSS-SB58-002 (0412059-008) had PNA spike compounds out of control.

The MS/MSD prepared from sample WSS-SB58-001 (0412059-007) had out of control recoveries on TPH soil spike compounds Diesel (180%/360% Recovery, QC Limits 30-150%, 51% RPD, QC Limit 25% RPD) and Oil (310%/673% Recovery, QC Limits 30-150%, 45% RPD, QC Limit 25% RPD).

The MSD prepared from sample WSS-SB58-002 (0412059-008) had high TPH soil spike recovery for Oil (166% Recovery, QC Limits 30-150%).

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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB52-001
Lab Order:	0412059	**Tag Number:**	6-8'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 8:05:00 AM
Lab ID:	0412059-001A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/3/2004**		Analyst: **PS**
Acetone	ND	1.4		mg/Kg-dry	50	12/8/2004
Benzene	2.6	0.28		mg/Kg-dry	50	12/8/2004
Bromodichloromethane	ND	0.28		mg/Kg-dry	50	12/8/2004
Bromoform	ND	0.28		mg/Kg-dry	50	12/8/2004
Bromomethane	ND	0.55		mg/Kg-dry	50	12/8/2004
2-Butanone	ND	0.55		mg/Kg-dry	50	12/8/2004
Carbon disulfide	ND	0.28		mg/Kg-dry	50	12/8/2004
Carbon tetrachloride	ND	0.28		mg/Kg-dry	50	12/8/2004
Chlorobenzene	ND	0.28		mg/Kg-dry	50	12/8/2004
Chloroethane	ND	0.55		mg/Kg-dry	50	12/8/2004
Chloroform	ND	0.28		mg/Kg-dry	50	12/8/2004
Chloromethane	ND	0.28		mg/Kg-dry	50	12/8/2004
Dibromochloromethane	ND	0.28		mg/Kg-dry	50	12/8/2004
1,1-Dichloroethane	ND	0.28		mg/Kg-dry	50	12/8/2004
1,2-Dichloroethane	ND	0.28		mg/Kg-dry	50	12/8/2004
1,1-Dichloroethene	ND	0.28		mg/Kg-dry	50	12/8/2004
cis-1,2-Dichloroethene	ND	0.28		mg/Kg-dry	50	12/8/2004
trans-1,2-Dichloroethene	ND	0.28		mg/Kg-dry	50	12/8/2004
1,2-Dichloropropane	ND	0.28		mg/Kg-dry	50	12/8/2004
cis-1,3-Dichloropropene	ND	0.28		mg/Kg-dry	50	12/8/2004
trans-1,3-Dichloropropene	ND	0.28		mg/Kg-dry	50	12/8/2004
Ethylbenzene	11	0.28		mg/Kg-dry	50	12/8/2004
2-Hexanone	ND	0.55		mg/Kg-dry	50	12/8/2004
4-Methyl-2-pentanone	ND	0.55		mg/Kg-dry	50	12/8/2004
Methylene chloride	ND	0.55		mg/Kg-dry	50	12/8/2004
Methyl tert-butyl ether	ND	0.28		mg/Kg-dry	50	12/8/2004
Styrene	ND	0.28		mg/Kg-dry	50	12/8/2004
1,1,2,2-Tetrachloroethane	ND	0.28		mg/Kg-dry	50	12/8/2004
Tetrachloroethene	ND	0.28		mg/Kg-dry	50	12/8/2004
Toluene	0.7	0.28		mg/Kg-dry	50	12/8/2004
1,1,1-Trichloroethane	ND	0.28		mg/Kg-dry	50	12/8/2004
1,1,2-Trichloroethane	ND	0.28		mg/Kg-dry	50	12/8/2004
Trichloroethene	ND	0.28		mg/Kg-dry	50	12/8/2004
Vinyl chloride	ND	0.28		mg/Kg-dry	50	12/8/2004
Xylenes, Total	9.8	0.55		mg/Kg-dry	50	12/8/2004

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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB52-001
Lab Order:	0412059	**Tag Number:**	6-8'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 8:05:00 AM
Lab ID:	0412059-001B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/7/2004**		Analyst: **JF**
TPH (Gasoline)	24	23	*	mg/Kg-dry	1	12/8/2004
TPH (Diesel)	420	23	*	mg/Kg-dry	1	12/8/2004
TPH (Oil)	330	23	*	mg/Kg-dry	1	12/8/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **VS**
Acenaphthene	3.7	3		mg/Kg-dry	100	12/8/2004
Acenaphthylene	1	0.3		mg/Kg-dry	10	12/8/2004
Anthracene	2.2	0.3		mg/Kg-dry	10	12/8/2004
Benz(a)anthracene	1.8	0.3		mg/Kg-dry	10	12/8/2004
Benzo(b)fluoranthene	0.71	0.3		mg/Kg-dry	10	12/8/2004
Benzo(k)fluoranthene	0.31	0.03		mg/Kg-dry	1	12/7/2004
Benzo(g,h,i)perylene	0.18	0.03		mg/Kg-dry	1	12/7/2004
Benzo(a)pyrene	1.3	0.3		mg/Kg-dry	10	12/8/2004
Chrysene	1.7	0.3		mg/Kg-dry	10	12/8/2004
Dibenz(a,h)anthracene	0.1	0.03		mg/Kg-dry	1	12/7/2004
Fluoranthene	2.7	0.3		mg/Kg-dry	10	12/8/2004
Fluorene	3.6	3		mg/Kg-dry	100	12/8/2004
Indeno(1,2,3-cd)pyrene	0.35	0.3		mg/Kg-dry	10	12/8/2004
Naphthalene	22	3		mg/Kg-dry	100	12/8/2004
Phenanthrene	11	3		mg/Kg-dry	100	12/8/2004
Pyrene	4.5	3		mg/Kg-dry	100	12/8/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.4		mg/Kg-dry	1	12/8/2004
Bis(2-chloroethyl)ether	ND	0.4		mg/Kg-dry	1	12/8/2004
Bis(2-ethylhexyl)phthalate	ND	0.4		mg/Kg-dry	1	12/8/2004
4-Bromophenyl phenyl ether	ND	0.4		mg/Kg-dry	1	12/8/2004
Butyl benzyl phthalate	ND	0.4		mg/Kg-dry	1	12/8/2004
Carbazole	ND	0.4		mg/Kg-dry	1	12/8/2004
4-Chloro-3-methylphenol	ND	0.4		mg/Kg-dry	1	12/8/2004
4-Chloroaniline	ND	0.4		mg/Kg-dry	1	12/8/2004
2-Chloronaphthalene	ND	0.4		mg/Kg-dry	1	12/8/2004
2-Chlorophenol	ND	0.4		mg/Kg-dry	1	12/8/2004
4-Chlorophenyl phenyl ether	ND	0.4		mg/Kg-dry	1	12/8/2004
Dibenzofuran	0.91	0.4		mg/Kg-dry	1	12/8/2004
1,2-Dichlorobenzene	ND	0.4		mg/Kg-dry	1	12/8/2004
1,3-Dichlorobenzene	ND	0.4		mg/Kg-dry	1	12/8/2004
1,4-Dichlorobenzene	ND	0.4		mg/Kg-dry	1	12/8/2004
3,3´-Dichlorobenzidine	ND	0.8		mg/Kg-dry	1	12/8/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB52-001
Lab Order:	0412059	**Tag Number:**	6-8'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 8:05:00 AM
Lab ID:	0412059-001B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.4		mg/Kg-dry	1	12/8/2004
Diethyl phthalate	ND	0.4		mg/Kg-dry	1	12/8/2004
Dimethyl phthalate	ND	0.4		mg/Kg-dry	1	12/8/2004
Di-n-butyl phthalate	ND	0.4		mg/Kg-dry	1	12/8/2004
2,4-Dimethylphenol	ND	0.4		mg/Kg-dry	1	12/8/2004
4,6-Dinitro-2-methylphenol	ND	1.9		mg/Kg-dry	1	12/8/2004
2,4-Dinitrophenol	ND	1.9		mg/Kg-dry	1	12/8/2004
2,4-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/8/2004
2,6-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/8/2004
Di-n-octyl phthalate	ND	0.4		mg/Kg-dry	1	12/8/2004
Hexachlorobenzene	ND	0.4		mg/Kg-dry	1	12/8/2004
Hexachlorobutadiene	ND	0.4		mg/Kg-dry	1	12/8/2004
Hexachlorocyclopentadiene	ND	0.4		mg/Kg-dry	1	12/8/2004
Hexachloroethane	ND	0.4		mg/Kg-dry	1	12/8/2004
Isophorone	ND	0.4		mg/Kg-dry	1	12/8/2004
2-Methylnaphthalene	19	2		mg/Kg-dry	5	12/8/2004
2-Methylphenol	ND	0.4		mg/Kg-dry	1	12/8/2004
4-Methylphenol	ND	0.4		mg/Kg-dry	1	12/8/2004
2-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/8/2004
3-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/8/2004
4-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/8/2004
Nitrobenzene	ND	0.21		mg/Kg-dry	1	12/8/2004
2-Nitrophenol	ND	0.4		mg/Kg-dry	1	12/8/2004
4-Nitrophenol	ND	1.9		mg/Kg-dry	1	12/8/2004
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	12/8/2004
N-Nitrosodiphenylamine	ND	0.4		mg/Kg-dry	1	12/8/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.4		mg/Kg-dry	1	12/8/2004
Pentachlorophenol	ND	1.9		mg/Kg-dry	1	12/8/2004
Phenol	ND	0.4		mg/Kg-dry	1	12/8/2004
1,2,4-Trichlorobenzene	ND	0.4		mg/Kg-dry	1	12/8/2004
2,4,5-Trichlorophenol	ND	0.8		mg/Kg-dry	1	12/8/2004
2,4,6-Trichlorophenol	ND	0.4		mg/Kg-dry	1	12/8/2004
Percent Moisture	**D2974**			Prep Date: **12/2/2004**		Analyst: **RW**
Percent Moisture	18.53	0.01	*	wt%	1	12/3/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB52-002
Lab Order:	0412059	**Tag Number:**	12-14'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 8:20:00 AM
Lab ID:	0412059-002A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/3/2004**		Analyst: **PS**
Acetone	ND UJ	0.027		mg/Kg-dry	1	12/8/2004
Benzene	0.0089 J	0.0054		mg/Kg-dry	1	12/8/2004
Bromodichloromethane	ND UJ	0.0054		mg/Kg-dry	1	12/8/2004
Bromoform	ND	0.0054		mg/Kg-dry	1	12/8/2004
Bromomethane	ND	0.011		mg/Kg-dry	1	12/8/2004
2-Butanone	ND	0.011		mg/Kg-dry	1	12/8/2004
Carbon disulfide	ND	0.0054		mg/Kg-dry	1	12/8/2004
Carbon tetrachloride	ND	0.0054		mg/Kg-dry	1	12/8/2004
Chlorobenzene	ND	0.0054		mg/Kg-dry	1	12/8/2004
Chloroethane	ND	0.011		mg/Kg-dry	1	12/8/2004
Chloroform	ND	0.0054		mg/Kg-dry	1	12/8/2004
Chloromethane	ND	0.0054		mg/Kg-dry	1	12/8/2004
Dibromochloromethane	ND	0.0054		mg/Kg-dry	1	12/8/2004
1,1-Dichloroethane	ND	0.0054		mg/Kg-dry	1	12/8/2004
1,2-Dichloroethane	ND	0.0054		mg/Kg-dry	1	12/8/2004
1,1-Dichloroethene	ND	0.0054		mg/Kg-dry	1	12/8/2004
cis-1,2-Dichloroethene	ND	0.0054		mg/Kg-dry	1	12/8/2004
trans-1,2-Dichloroethene	ND	0.0054		mg/Kg-dry	1	12/8/2004
1,2-Dichloropropane	ND	0.0054		mg/Kg-dry	1	12/8/2004
cis-1,3-Dichloropropene	ND	0.0054		mg/Kg-dry	1	12/8/2004
trans-1,3-Dichloropropene	ND	0.0054		mg/Kg-dry	1	12/8/2004
Ethylbenzene	0.043 J	0.0054		mg/Kg-dry	1	12/8/2004
2-Hexanone	ND UJ	0.011		mg/Kg-dry	1	12/8/2004
4-Methyl-2-pentanone	ND	0.011		mg/Kg-dry	1	12/8/2004
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/8/2004
Methyl tert-butyl ether	ND	0.0054		mg/Kg-dry	1	12/8/2004
Styrene	ND	0.0054		mg/Kg-dry	1	12/8/2004
1,1,2,2-Tetrachloroethane	ND	0.0054		mg/Kg-dry	1	12/8/2004
Tetrachloroethene	ND	0.0054		mg/Kg-dry	1	12/8/2004
Toluene	0.0097 J	0.0054		mg/Kg-dry	1	12/8/2004
1,1,1-Trichloroethane	ND UJ	0.0054		mg/Kg-dry	1	12/8/2004
1,1,2-Trichloroethane	ND	0.0054		mg/Kg-dry	1	12/8/2004
Trichloroethene	ND	0.0054		mg/Kg-dry	1	12/8/2004
Vinyl chloride	ND	0.0054		mg/Kg-dry	1	12/8/2004
Xylenes, Total	0.055 J	0.011		mg/Kg-dry	1	12/8/2004

J= estimated value; poor surrogate recovery, SFA
UJ= estimated non-detect value; poor surrogate recovery, SFA

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB52-002
Lab Order:	0412059	**Tag Number:**	12-14'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 8:20:00 AM
Lab ID:	0412059-002B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/7/2004**		Analyst: **JF**
TPH (Gasoline)	ND	23	*	mg/Kg-dry	1	12/8/2004
TPH (Diesel)	ND	23	*	mg/Kg-dry	1	12/8/2004
TPH (Oil)	ND	23	*	mg/Kg-dry	1	12/8/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **VS**
Acenaphthene	0.19	0.029		mg/Kg-dry	1	12/7/2004
Acenaphthylene	0.066	0.029		mg/Kg-dry	1	12/7/2004
Anthracene	0.12	0.029		mg/Kg-dry	1	12/7/2004
Benz(a)anthracene	0.091	0.029		mg/Kg-dry	1	12/7/2004
Benzo(b)fluoranthene	0.038	0.029		mg/Kg-dry	1	12/7/2004
Benzo(k)fluoranthene	0.035	0.029		mg/Kg-dry	1	12/7/2004
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	12/7/2004
Benzo(a)pyrene	0.07	0.029		mg/Kg-dry	1	12/7/2004
Chrysene	0.096	0.029		mg/Kg-dry	1	12/7/2004
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	12/7/2004
Fluoranthene	0.15	0.029		mg/Kg-dry	1	12/7/2004
Fluorene	0.2	0.029		mg/Kg-dry	1	12/7/2004
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	12/7/2004
Naphthalene	2.3	0.29		mg/Kg-dry	10	12/8/2004
Phenanthrene	0.65	0.29		mg/Kg-dry	10	12/8/2004
Pyrene	0.22	0.029		mg/Kg-dry	1	12/7/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.39		mg/Kg-dry	1	12/8/2004
Bis(2-chloroethyl)ether	ND	0.39		mg/Kg-dry	1	12/8/2004
Bis(2-ethylhexyl)phthalate	ND	0.39		mg/Kg-dry	1	12/8/2004
4-Bromophenyl phenyl ether	ND	0.39		mg/Kg-dry	1	12/8/2004
Butyl benzyl phthalate	ND	0.39		mg/Kg-dry	1	12/8/2004
Carbazole	ND	0.39		mg/Kg-dry	1	12/8/2004
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	12/8/2004
4-Chloroaniline	ND	0.39		mg/Kg-dry	1	12/8/2004
2-Chloronaphthalene	ND	0.39		mg/Kg-dry	1	12/8/2004
2-Chlorophenol	ND	0.39		mg/Kg-dry	1	12/8/2004
4-Chlorophenyl phenyl ether	ND	0.39		mg/Kg-dry	1	12/8/2004
Dibenzofuran	ND	0.39		mg/Kg-dry	1	12/8/2004
1,2-Dichlorobenzene	ND	0.39		mg/Kg-dry	1	12/8/2004
1,3-Dichlorobenzene	ND	0.39		mg/Kg-dry	1	12/8/2004
1,4-Dichlorobenzene	ND	0.39		mg/Kg-dry	1	12/8/2004
3,3´-Dichlorobenzidine	ND	0.77		mg/Kg-dry	1	12/8/2004

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* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB52-002
Lab Order:	0412059	**Tag Number:**	12-14'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 8:20:00 AM
Lab ID:	0412059-002B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.39		mg/Kg-dry	1	12/8/2004
Diethyl phthalate	ND	0.39		mg/Kg-dry	1	12/8/2004
Dimethyl phthalate	ND	0.39		mg/Kg-dry	1	12/8/2004
Di-n-butyl phthalate	ND	0.39		mg/Kg-dry	1	12/8/2004
2,4-Dimethylphenol	ND	0.39		mg/Kg-dry	1	12/8/2004
4,6-Dinitro-2-methylphenol	ND	1.9		mg/Kg-dry	1	12/8/2004
2,4-Dinitrophenol	ND	1.9		mg/Kg-dry	1	12/8/2004
2,4-Dinitrotoluene	ND	0.2		mg/Kg-dry	1	12/8/2004
2,6-Dinitrotoluene	ND	0.2		mg/Kg-dry	1	12/8/2004
Di-n-octyl phthalate	ND	0.39		mg/Kg-dry	1	12/8/2004
Hexachlorobenzene	ND	0.39		mg/Kg-dry	1	12/8/2004
Hexachlorobutadiene	ND	0.39		mg/Kg-dry	1	12/8/2004
Hexachlorocyclopentadiene	ND	0.39		mg/Kg-dry	1	12/8/2004
Hexachloroethane	ND	0.39		mg/Kg-dry	1	12/8/2004
Isophorone	ND	0.39		mg/Kg-dry	1	12/8/2004
2-Methylnaphthalene	1.8	0.39		mg/Kg-dry	1	12/8/2004
2-Methylphenol	ND	0.39		mg/Kg-dry	1	12/8/2004
4-Methylphenol	ND	0.39		mg/Kg-dry	1	12/8/2004
2-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/8/2004
3-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/8/2004
4-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/8/2004
Nitrobenzene	ND	0.2		mg/Kg-dry	1	12/8/2004
2-Nitrophenol	ND	0.39		mg/Kg-dry	1	12/8/2004
4-Nitrophenol	ND	1.9		mg/Kg-dry	1	12/8/2004
N-Nitrosodi-n-propylamine	ND	0.2		mg/Kg-dry	1	12/8/2004
N-Nitrosodiphenylamine	ND	0.39		mg/Kg-dry	1	12/8/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.39		mg/Kg-dry	1	12/8/2004
Pentachlorophenol	ND	1.9		mg/Kg-dry	1	12/8/2004
Phenol	ND	0.39		mg/Kg-dry	1	12/8/2004
1,2,4-Trichlorobenzene	ND	0.39		mg/Kg-dry	1	12/8/2004
2,4,5-Trichlorophenol	ND	0.77		mg/Kg-dry	1	12/8/2004
2,4,6-Trichlorophenol	ND	0.39		mg/Kg-dry	1	12/8/2004
Percent Moisture	**D2974**			Prep Date: **12/2/2004**		Analyst: **RW**
Percent Moisture	14.85	0.01	*	wt%	1	12/3/2004

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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB55-001
Lab Order:	0412059	**Tag Number:**	6-8'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 9:25:00 AM
Lab ID:	0412059-003A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/3/2004**		Analyst: **PS**
Acetone	0.026	0.025		mg/Kg-dry	1	12/8/2004
Benzene	0.064	0.005		mg/Kg-dry	1	12/8/2004
Bromodichloromethane	ND	0.005		mg/Kg-dry	1	12/8/2004
Bromoform	ND	0.005		mg/Kg-dry	1	12/8/2004
Bromomethane	ND	0.01		mg/Kg-dry	1	12/8/2004
2-Butanone	ND	0.01		mg/Kg-dry	1	12/8/2004
Carbon disulfide	ND	0.005		mg/Kg-dry	1	12/8/2004
Carbon tetrachloride	ND	0.005		mg/Kg-dry	1	12/8/2004
Chlorobenzene	ND	0.005		mg/Kg-dry	1	12/8/2004
Chloroethane	ND	0.01		mg/Kg-dry	1	12/8/2004
Chloroform	ND	0.005		mg/Kg-dry	1	12/8/2004
Chloromethane	ND	0.005		mg/Kg-dry	1	12/8/2004
Dibromochloromethane	ND	0.005		mg/Kg-dry	1	12/8/2004
1,1-Dichloroethane	ND	0.005		mg/Kg-dry	1	12/8/2004
1,2-Dichloroethane	ND	0.005		mg/Kg-dry	1	12/8/2004
1,1-Dichloroethene	ND	0.005		mg/Kg-dry	1	12/8/2004
cis-1,2-Dichloroethene	ND	0.005		mg/Kg-dry	1	12/8/2004
trans-1,2-Dichloroethene	ND	0.005		mg/Kg-dry	1	12/8/2004
1,2-Dichloropropane	ND	0.005		mg/Kg-dry	1	12/8/2004
cis-1,3-Dichloropropene	ND	0.005		mg/Kg-dry	1	12/8/2004
trans-1,3-Dichloropropene	ND	0.005		mg/Kg-dry	1	12/8/2004
Ethylbenzene	0.11	0.005		mg/Kg-dry	1	12/8/2004
2-Hexanone	ND	0.01		mg/Kg-dry	1	12/8/2004
4-Methyl-2-pentanone	ND	0.01		mg/Kg-dry	1	12/8/2004
Methylene chloride	ND	0.01		mg/Kg-dry	1	12/8/2004
Methyl tert-butyl ether	ND	0.005		mg/Kg-dry	1	12/8/2004
Styrene	0.016	0.005		mg/Kg-dry	1	12/8/2004
1,1,2,2-Tetrachloroethane	ND	0.005		mg/Kg-dry	1	12/8/2004
Tetrachloroethene	ND	0.005		mg/Kg-dry	1	12/8/2004
Toluene	0.066	0.005		mg/Kg-dry	1	12/8/2004
1,1,1-Trichloroethane	ND	0.005		mg/Kg-dry	1	12/8/2004
1,1,2-Trichloroethane	ND	0.005		mg/Kg-dry	1	12/8/2004
Trichloroethene	ND	0.005		mg/Kg-dry	1	12/8/2004
Vinyl chloride	ND	0.005		mg/Kg-dry	1	12/8/2004
Xylenes, Total	0.18	0.01		mg/Kg-dry	1	12/8/2004

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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB55-001
Lab Order:	0412059	**Tag Number:**	6-8'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 9:25:00 AM
Lab ID:	0412059-003B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/7/2004**		Analyst: **JF**
TPH (Gasoline)	ND	23	*	mg/Kg-dry	1	12/8/2004
TPH (Diesel)	ND	23	*	mg/Kg-dry	1	12/8/2004
TPH (Oil)	27	23	*	mg/Kg-dry	1	12/8/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **VS**
Acenaphthene	0.078	0.029		mg/Kg-dry	1	12/7/2004
Acenaphthylene	0.089	0.029		mg/Kg-dry	1	12/7/2004
Anthracene	0.099	0.029		mg/Kg-dry	1	12/7/2004
Benz(a)anthracene	0.098	0.029		mg/Kg-dry	1	12/7/2004
Benzo(b)fluoranthene	0.054	0.029		mg/Kg-dry	1	12/7/2004
Benzo(k)fluoranthene	0.05	0.029		mg/Kg-dry	1	12/7/2004
Benzo(g,h,i)perylene	0.033	0.029		mg/Kg-dry	1	12/7/2004
Benzo(a)pyrene	0.092	0.029		mg/Kg-dry	1	12/7/2004
Chrysene	0.1	0.029		mg/Kg-dry	1	12/7/2004
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	12/7/2004
Fluoranthene	0.16	0.029		mg/Kg-dry	1	12/7/2004
Fluorene	0.15	0.029		mg/Kg-dry	1	12/7/2004
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	12/7/2004
Naphthalene	0.95	0.29		mg/Kg-dry	10	12/8/2004
Phenanthrene	0.58	0.29		mg/Kg-dry	10	12/8/2004
Pyrene	0.31	0.29		mg/Kg-dry	10	12/8/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.39		mg/Kg-dry	1	12/8/2004
Bis(2-chloroethyl)ether	ND	0.39		mg/Kg-dry	1	12/8/2004
Bis(2-ethylhexyl)phthalate	ND	0.39		mg/Kg-dry	1	12/8/2004
4-Bromophenyl phenyl ether	ND	0.39		mg/Kg-dry	1	12/8/2004
Butyl benzyl phthalate	ND	0.39		mg/Kg-dry	1	12/8/2004
Carbazole	ND	0.39		mg/Kg-dry	1	12/8/2004
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	12/8/2004
4-Chloroaniline	ND	0.39		mg/Kg-dry	1	12/8/2004
2-Chloronaphthalene	ND	0.39		mg/Kg-dry	1	12/8/2004
2-Chlorophenol	ND	0.39		mg/Kg-dry	1	12/8/2004
4-Chlorophenyl phenyl ether	ND	0.39		mg/Kg-dry	1	12/8/2004
Dibenzofuran	ND	0.39		mg/Kg-dry	1	12/8/2004
1,2-Dichlorobenzene	ND	0.39		mg/Kg-dry	1	12/8/2004
1,3-Dichlorobenzene	ND	0.39		mg/Kg-dry	1	12/8/2004
1,4-Dichlorobenzene	ND	0.39		mg/Kg-dry	1	12/8/2004
3,3´-Dichlorobenzidine	ND	0.79		mg/Kg-dry	1	12/8/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB55-001
Lab Order:	0412059	**Tag Number:**	6-8'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 9:25:00 AM
Lab ID:	0412059-003B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.39		mg/Kg-dry	1	12/8/2004
Diethyl phthalate	ND	0.39		mg/Kg-dry	1	12/8/2004
Dimethyl phthalate	ND	0.39		mg/Kg-dry	1	12/8/2004
Di-n-butyl phthalate	ND	0.39		mg/Kg-dry	1	12/8/2004
2,4-Dimethylphenol	ND	0.39		mg/Kg-dry	1	12/8/2004
4,6-Dinitro-2-methylphenol	ND	1.9		mg/Kg-dry	1	12/8/2004
2,4-Dinitrophenol	ND	1.9		mg/Kg-dry	1	12/8/2004
2,4-Dinitrotoluene	ND	0.2		mg/Kg-dry	1	12/8/2004
2,6-Dinitrotoluene	ND	0.2		mg/Kg-dry	1	12/8/2004
Di-n-octyl phthalate	ND	0.39		mg/Kg-dry	1	12/8/2004
Hexachlorobenzene	ND	0.39		mg/Kg-dry	1	12/8/2004
Hexachlorobutadiene	ND	0.39		mg/Kg-dry	1	12/8/2004
Hexachlorocyclopentadiene	ND	0.39		mg/Kg-dry	1	12/8/2004
Hexachloroethane	ND	0.39		mg/Kg-dry	1	12/8/2004
Isophorone	ND	0.39		mg/Kg-dry	1	12/8/2004
2-Methylnaphthalene	0.8	0.39		mg/Kg-dry	1	12/8/2004
2-Methylphenol	ND	0.39		mg/Kg-dry	1	12/8/2004
4-Methylphenol	ND	0.39		mg/Kg-dry	1	12/8/2004
2-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/8/2004
3-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/8/2004
4-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/8/2004
Nitrobenzene	ND	0.2		mg/Kg-dry	1	12/8/2004
2-Nitrophenol	ND	0.39		mg/Kg-dry	1	12/8/2004
4-Nitrophenol	ND	1.9		mg/Kg-dry	1	12/8/2004
N-Nitrosodi-n-propylamine	ND	0.2		mg/Kg-dry	1	12/8/2004
N-Nitrosodiphenylamine	ND	0.39		mg/Kg-dry	1	12/8/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.39		mg/Kg-dry	1	12/8/2004
Pentachlorophenol	ND	1.9		mg/Kg-dry	1	12/8/2004
Phenol	ND	0.39		mg/Kg-dry	1	12/8/2004
1,2,4-Trichlorobenzene	ND	0.39		mg/Kg-dry	1	12/8/2004
2,4,5-Trichlorophenol	ND	0.79		mg/Kg-dry	1	12/8/2004
2,4,6-Trichlorophenol	ND	0.39		mg/Kg-dry	1	12/8/2004
Percent Moisture	**D2974**			Prep Date: **12/3/2004**		Analyst: **RW**
Percent Moisture	16.17	0.01	*	wt%	1	12/4/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB55-002
Lab Order:	0412059	**Tag Number:**	12-14'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 9:35:00 AM
Lab ID:	0412059-004A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/3/2004**		Analyst: **PS**
Acetone	ND	0.032		mg/Kg-dry	1	12/8/2004
Benzene	ND	0.0064		mg/Kg-dry	1	12/8/2004
Bromodichloromethane	ND	0.0064		mg/Kg-dry	1	12/8/2004
Bromoform	ND	0.0064		mg/Kg-dry	1	12/8/2004
Bromomethane	ND	0.013		mg/Kg-dry	1	12/8/2004
2-Butanone	ND	0.013		mg/Kg-dry	1	12/8/2004
Carbon disulfide	ND	0.0064		mg/Kg-dry	1	12/8/2004
Carbon tetrachloride	ND	0.0064		mg/Kg-dry	1	12/8/2004
Chlorobenzene	ND	0.0064		mg/Kg-dry	1	12/8/2004
Chloroethane	ND	0.013		mg/Kg-dry	1	12/8/2004
Chloroform	ND	0.0064		mg/Kg-dry	1	12/8/2004
Chloromethane	ND	0.0064		mg/Kg-dry	1	12/8/2004
Dibromochloromethane	ND	0.0064		mg/Kg-dry	1	12/8/2004
1,1-Dichloroethane	ND	0.0064		mg/Kg-dry	1	12/8/2004
1,2-Dichloroethane	ND	0.0064		mg/Kg-dry	1	12/8/2004
1,1-Dichloroethene	ND	0.0064		mg/Kg-dry	1	12/8/2004
cis-1,2-Dichloroethene	ND	0.0064		mg/Kg-dry	1	12/8/2004
trans-1,2-Dichloroethene	ND	0.0064		mg/Kg-dry	1	12/8/2004
1,2-Dichloropropane	ND	0.0064		mg/Kg-dry	1	12/8/2004
cis-1,3-Dichloropropene	ND	0.0064		mg/Kg-dry	1	12/8/2004
trans-1,3-Dichloropropene	ND	0.0064		mg/Kg-dry	1	12/8/2004
Ethylbenzene	ND	0.0064		mg/Kg-dry	1	12/8/2004
2-Hexanone	ND	0.013		mg/Kg-dry	1	12/8/2004
4-Methyl-2-pentanone	ND	0.013		mg/Kg-dry	1	12/8/2004
Methylene chloride	ND	0.013		mg/Kg-dry	1	12/8/2004
Methyl tert-butyl ether	ND	0.0064		mg/Kg-dry	1	12/8/2004
Styrene	ND	0.0064		mg/Kg-dry	1	12/8/2004
1,1,2,2-Tetrachloroethane	ND	0.0064		mg/Kg-dry	1	12/8/2004
Tetrachloroethene	ND	0.0064		mg/Kg-dry	1	12/8/2004
Toluene	ND	0.0064		mg/Kg-dry	1	12/8/2004
1,1,1-Trichloroethane	ND	0.0064		mg/Kg-dry	1	12/8/2004
1,1,2-Trichloroethane	ND	0.0064		mg/Kg-dry	1	12/8/2004
Trichloroethene	ND	0.0064		mg/Kg-dry	1	12/8/2004
Vinyl chloride	ND	0.0064		mg/Kg-dry	1	12/8/2004
Xylenes, Total	ND	0.013		mg/Kg-dry	1	12/8/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB55-002
Lab Order:	0412059	**Tag Number:**	12-14'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 9:35:00 AM
Lab ID:	0412059-004B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/7/2004**		Analyst: **JF**
TPH (Gasoline)	ND	22	*	mg/Kg-dry	1	12/8/2004
TPH (Diesel)	ND	22	*	mg/Kg-dry	1	12/8/2004
TPH (Oil)	ND	22	*	mg/Kg-dry	1	12/8/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	12/7/2004
Acenaphthylene	ND	0.03		mg/Kg-dry	1	12/7/2004
Anthracene	ND	0.03		mg/Kg-dry	1	12/7/2004
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	12/7/2004
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	12/7/2004
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	12/7/2004
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	12/7/2004
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	12/7/2004
Chrysene	ND	0.03		mg/Kg-dry	1	12/7/2004
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	12/7/2004
Fluoranthene	ND	0.03		mg/Kg-dry	1	12/7/2004
Fluorene	ND	0.03		mg/Kg-dry	1	12/7/2004
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	12/7/2004
Naphthalene	ND	0.03		mg/Kg-dry	1	12/7/2004
Phenanthrene	0.067	0.03		mg/Kg-dry	1	12/7/2004
Pyrene	ND	0.03		mg/Kg-dry	1	12/7/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.4		mg/Kg-dry	1	12/8/2004
Bis(2-chloroethyl)ether	ND	0.4		mg/Kg-dry	1	12/8/2004
Bis(2-ethylhexyl)phthalate	ND	0.4		mg/Kg-dry	1	12/8/2004
4-Bromophenyl phenyl ether	ND	0.4		mg/Kg-dry	1	12/8/2004
Butyl benzyl phthalate	ND	0.4		mg/Kg-dry	1	12/8/2004
Carbazole	ND	0.4		mg/Kg-dry	1	12/8/2004
4-Chloro-3-methylphenol	ND	0.4		mg/Kg-dry	1	12/8/2004
4-Chloroaniline	ND	0.4		mg/Kg-dry	1	12/8/2004
2-Chloronaphthalene	ND	0.4		mg/Kg-dry	1	12/8/2004
2-Chlorophenol	ND	0.4		mg/Kg-dry	1	12/8/2004
4-Chlorophenyl phenyl ether	ND	0.4		mg/Kg-dry	1	12/8/2004
Dibenzofuran	ND	0.4		mg/Kg-dry	1	12/8/2004
1,2-Dichlorobenzene	ND	0.4		mg/Kg-dry	1	12/8/2004
1,3-Dichlorobenzene	ND	0.4		mg/Kg-dry	1	12/8/2004
1,4-Dichlorobenzene	ND	0.4		mg/Kg-dry	1	12/8/2004
3,3´-Dichlorobenzidine	ND	0.81		mg/Kg-dry	1	12/8/2004

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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB55-002
Lab Order:	0412059	**Tag Number:**	12-14'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 9:35:00 AM
Lab ID:	0412059-004B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.4		mg/Kg-dry	1	12/8/2004
Diethyl phthalate	ND	0.4		mg/Kg-dry	1	12/8/2004
Dimethyl phthalate	ND	0.4		mg/Kg-dry	1	12/8/2004
Di-n-butyl phthalate	ND	0.4		mg/Kg-dry	1	12/8/2004
2,4-Dimethylphenol	ND	0.4		mg/Kg-dry	1	12/8/2004
4,6-Dinitro-2-methylphenol	ND	2		mg/Kg-dry	1	12/8/2004
2,4-Dinitrophenol	ND	2		mg/Kg-dry	1	12/8/2004
2,4-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/8/2004
2,6-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/8/2004
Di-n-octyl phthalate	ND	0.4		mg/Kg-dry	1	12/8/2004
Hexachlorobenzene	ND	0.4		mg/Kg-dry	1	12/8/2004
Hexachlorobutadiene	ND	0.4		mg/Kg-dry	1	12/8/2004
Hexachlorocyclopentadiene	ND	0.4		mg/Kg-dry	1	12/8/2004
Hexachloroethane	ND	0.4		mg/Kg-dry	1	12/8/2004
Isophorone	ND	0.4		mg/Kg-dry	1	12/8/2004
2-Methylnaphthalene	ND	0.4		mg/Kg-dry	1	12/8/2004
2-Methylphenol	ND	0.4		mg/Kg-dry	1	12/8/2004
4-Methylphenol	ND	0.4		mg/Kg-dry	1	12/8/2004
2-Nitroaniline	ND	2		mg/Kg-dry	1	12/8/2004
3-Nitroaniline	ND	2		mg/Kg-dry	1	12/8/2004
4-Nitroaniline	ND	2		mg/Kg-dry	1	12/8/2004
Nitrobenzene	ND	0.21		mg/Kg-dry	1	12/8/2004
2-Nitrophenol	ND	0.4		mg/Kg-dry	1	12/8/2004
4-Nitrophenol	ND	2		mg/Kg-dry	1	12/8/2004
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	12/8/2004
N-Nitrosodiphenylamine	ND	0.4		mg/Kg-dry	1	12/8/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.4		mg/Kg-dry	1	12/8/2004
Pentachlorophenol	ND	2		mg/Kg-dry	1	12/8/2004
Phenol	ND	0.4		mg/Kg-dry	1	12/8/2004
1,2,4-Trichlorobenzene	ND	0.4		mg/Kg-dry	1	12/8/2004
2,4,5-Trichlorophenol	ND	0.81		mg/Kg-dry	1	12/8/2004
2,4,6-Trichlorophenol	ND	0.4		mg/Kg-dry	1	12/8/2004
Percent Moisture	**D2974**			Prep Date: **12/3/2004**		Analyst: **RW**
Percent Moisture	19.05	0.01	*	wt%	1	12/4/2004

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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB54-001
Lab Order:	0412059	**Tag Number:**	8-10'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 10:40:00 AM
Lab ID:	0412059-005A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/3/2004**		Analyst: **PS**
Acetone	ND	3.2		mg/Kg-dry	100	12/8/2004
Benzene	5.7	0.64		mg/Kg-dry	100	12/8/2004
Bromodichloromethane	ND	0.64		mg/Kg-dry	100	12/8/2004
Bromoform	ND	0.64		mg/Kg-dry	100	12/8/2004
Bromomethane	ND	1.3		mg/Kg-dry	100	12/8/2004
2-Butanone	ND	1.3		mg/Kg-dry	100	12/8/2004
Carbon disulfide	ND	0.64		mg/Kg-dry	100	12/8/2004
Carbon tetrachloride	ND	0.64		mg/Kg-dry	100	12/8/2004
Chlorobenzene	ND	0.64		mg/Kg-dry	100	12/8/2004
Chloroethane	ND	1.3		mg/Kg-dry	100	12/8/2004
Chloroform	ND	0.64		mg/Kg-dry	100	12/8/2004
Chloromethane	ND	0.64		mg/Kg-dry	100	12/8/2004
Dibromochloromethane	ND	0.64		mg/Kg-dry	100	12/8/2004
1,1-Dichloroethane	ND	0.64		mg/Kg-dry	100	12/8/2004
1,2-Dichloroethane	ND	0.64		mg/Kg-dry	100	12/8/2004
1,1-Dichloroethene	ND	0.64		mg/Kg-dry	100	12/8/2004
cis-1,2-Dichloroethene	ND	0.64		mg/Kg-dry	100	12/8/2004
trans-1,2-Dichloroethene	ND	0.64		mg/Kg-dry	100	12/8/2004
1,2-Dichloropropane	ND	0.64		mg/Kg-dry	100	12/8/2004
cis-1,3-Dichloropropene	ND	0.64		mg/Kg-dry	100	12/8/2004
trans-1,3-Dichloropropene	ND	0.64		mg/Kg-dry	100	12/8/2004
Ethylbenzene	25	0.64		mg/Kg-dry	100	12/8/2004
2-Hexanone	ND	1.3		mg/Kg-dry	100	12/8/2004
4-Methyl-2-pentanone	ND	1.3		mg/Kg-dry	100	12/8/2004
Methylene chloride	ND	1.3		mg/Kg-dry	100	12/8/2004
Methyl tert-butyl ether	ND	0.64		mg/Kg-dry	100	12/8/2004
Styrene	ND	0.64		mg/Kg-dry	100	12/8/2004
1,1,2,2-Tetrachloroethane	ND	0.64		mg/Kg-dry	100	12/8/2004
Tetrachloroethene	ND	0.64		mg/Kg-dry	100	12/8/2004
Toluene	0.84	0.64		mg/Kg-dry	100	12/8/2004
1,1,1-Trichloroethane	ND	0.64		mg/Kg-dry	100	12/8/2004
1,1,2-Trichloroethane	ND	0.64		mg/Kg-dry	100	12/8/2004
Trichloroethene	ND	0.64		mg/Kg-dry	100	12/8/2004
Vinyl chloride	ND	0.64		mg/Kg-dry	100	12/8/2004
Xylenes, Total	8.7	1.3		mg/Kg-dry	100	12/8/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB54-001
Lab Order:	0412059	**Tag Number:**	8-10'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 10:40:00 AM
Lab ID:	0412059-005B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/7/2004**		Analyst: **JF**
TPH (Gasoline)	37	25	*	mg/Kg-dry	1	12/8/2004
TPH (Diesel)	250	25	*	mg/Kg-dry	1	12/8/2004
TPH (Oil)	140	25	*	mg/Kg-dry	1	12/8/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **VS**
Acenaphthene	12	3.2		mg/Kg-dry	100	12/8/2004
Acenaphthylene	4	3.2		mg/Kg-dry	100	12/8/2004
Anthracene	7.4	3.2		mg/Kg-dry	100	12/8/2004
Benz(a)anthracene	5.4	3.2		mg/Kg-dry	100	12/8/2004
Benzo(b)fluoranthene	2.6	0.32		mg/Kg-dry	10	12/8/2004
Benzo(k)fluoranthene	2.1	0.32		mg/Kg-dry	10	12/8/2004
Benzo(g,h,i)perylene	1.8	0.32		mg/Kg-dry	10	12/8/2004
Benzo(a)pyrene	4.8	3.2		mg/Kg-dry	100	12/8/2004
Chrysene	5.3	3.2		mg/Kg-dry	100	12/8/2004
Dibenz(a,h)anthracene	0.6	0.32		mg/Kg-dry	10	12/8/2004
Fluoranthene	9.6	3.2		mg/Kg-dry	100	12/8/2004
Fluorene	9.3	3.2		mg/Kg-dry	100	12/8/2004
Indeno(1,2,3-cd)pyrene	1.6	0.32		mg/Kg-dry	10	12/8/2004
Naphthalene	110	32		mg/Kg-dry	1000	12/9/2004
Phenanthrene	27	3.2		mg/Kg-dry	100	12/8/2004
Pyrene	14	3.2		mg/Kg-dry	100	12/8/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.42		mg/Kg-dry	1	12/8/2004
Bis(2-chloroethyl)ether	ND	0.42		mg/Kg-dry	1	12/8/2004
Bis(2-ethylhexyl)phthalate	ND	0.42		mg/Kg-dry	1	12/8/2004
4-Bromophenyl phenyl ether	ND	0.42		mg/Kg-dry	1	12/8/2004
Butyl benzyl phthalate	ND	0.42		mg/Kg-dry	1	12/8/2004
Carbazole	0.51	0.42		mg/Kg-dry	1	12/8/2004
4-Chloro-3-methylphenol	ND	0.42		mg/Kg-dry	1	12/8/2004
4-Chloroaniline	ND	0.42		mg/Kg-dry	1	12/8/2004
2-Chloronaphthalene	ND	0.42		mg/Kg-dry	1	12/8/2004
2-Chlorophenol	ND	0.42		mg/Kg-dry	1	12/8/2004
4-Chlorophenyl phenyl ether	ND	0.42		mg/Kg-dry	1	12/8/2004
Dibenzofuran	1.9	0.42		mg/Kg-dry	1	12/8/2004
1,2-Dichlorobenzene	ND	0.42		mg/Kg-dry	1	12/8/2004
1,3-Dichlorobenzene	ND	0.42		mg/Kg-dry	1	12/8/2004
1,4-Dichlorobenzene	ND	0.42		mg/Kg-dry	1	12/8/2004
3,3´-Dichlorobenzidine	ND	0.84		mg/Kg-dry	1	12/8/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB54-001
Lab Order:	0412059	**Tag Number:**	8-10'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 10:40:00 AM
Lab ID:	0412059-005B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.42		mg/Kg-dry	1	12/8/2004
Diethyl phthalate	ND	0.42		mg/Kg-dry	1	12/8/2004
Dimethyl phthalate	ND	0.42		mg/Kg-dry	1	12/8/2004
Di-n-butyl phthalate	ND	0.42		mg/Kg-dry	1	12/8/2004
2,4-Dimethylphenol	ND	0.42		mg/Kg-dry	1	12/8/2004
4,6-Dinitro-2-methylphenol	ND	2		mg/Kg-dry	1	12/8/2004
2,4-Dinitrophenol	ND	2		mg/Kg-dry	1	12/8/2004
2,4-Dinitrotoluene	ND	0.22		mg/Kg-dry	1	12/8/2004
2,6-Dinitrotoluene	ND	0.22		mg/Kg-dry	1	12/8/2004
Di-n-octyl phthalate	ND	0.42		mg/Kg-dry	1	12/8/2004
Hexachlorobenzene	ND	0.42		mg/Kg-dry	1	12/8/2004
Hexachlorobutadiene	ND	0.42		mg/Kg-dry	1	12/8/2004
Hexachlorocyclopentadiene	ND	0.42		mg/Kg-dry	1	12/8/2004
Hexachloroethane	ND	0.42		mg/Kg-dry	1	12/8/2004
Isophorone	ND	0.42		mg/Kg-dry	1	12/8/2004
2-Methylnaphthalene	45	4.2		mg/Kg-dry	10	12/8/2004
2-Methylphenol	ND	0.42		mg/Kg-dry	1	12/8/2004
4-Methylphenol	ND	0.42		mg/Kg-dry	1	12/8/2004
2-Nitroaniline	ND	2		mg/Kg-dry	1	12/8/2004
3-Nitroaniline	ND	2		mg/Kg-dry	1	12/8/2004
4-Nitroaniline	ND	2		mg/Kg-dry	1	12/8/2004
Nitrobenzene	ND	0.22		mg/Kg-dry	1	12/8/2004
2-Nitrophenol	ND	0.42		mg/Kg-dry	1	12/8/2004
4-Nitrophenol	ND	2		mg/Kg-dry	1	12/8/2004
N-Nitrosodi-n-propylamine	ND	0.22		mg/Kg-dry	1	12/8/2004
N-Nitrosodiphenylamine	ND	0.42		mg/Kg-dry	1	12/8/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.42		mg/Kg-dry	1	12/8/2004
Pentachlorophenol	ND	2		mg/Kg-dry	1	12/8/2004
Phenol	ND	0.42		mg/Kg-dry	1	12/8/2004
1,2,4-Trichlorobenzene	ND	0.42		mg/Kg-dry	1	12/8/2004
2,4,5-Trichlorophenol	ND	0.84		mg/Kg-dry	1	12/8/2004
2,4,6-Trichlorophenol	ND	0.42		mg/Kg-dry	1	12/8/2004
Percent Moisture	**D2974**			Prep Date: **12/3/2004**		Analyst: **RW**
Percent Moisture	22.31	0.01	*	wt%	1	12/4/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB54-002
Lab Order:	0412059	**Tag Number:**	14-16'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 10:55:00 AM
Lab ID:	0412059-006A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/3/2004**		Analyst: **PS**
Acetone	ND	0.027		mg/Kg-dry	1	12/8/2004
Benzene	ND	0.0054		mg/Kg-dry	1	12/8/2004
Bromodichloromethane	ND	0.0054		mg/Kg-dry	1	12/8/2004
Bromoform	ND	0.0054		mg/Kg-dry	1	12/8/2004
Bromomethane	ND	0.011		mg/Kg-dry	1	12/8/2004
2-Butanone	ND	0.011		mg/Kg-dry	1	12/8/2004
Carbon disulfide	ND	0.0054		mg/Kg-dry	1	12/8/2004
Carbon tetrachloride	ND	0.0054		mg/Kg-dry	1	12/8/2004
Chlorobenzene	ND	0.0054		mg/Kg-dry	1	12/8/2004
Chloroethane	ND	0.011		mg/Kg-dry	1	12/8/2004
Chloroform	ND	0.0054		mg/Kg-dry	1	12/8/2004
Chloromethane	ND	0.0054		mg/Kg-dry	1	12/8/2004
Dibromochloromethane	ND	0.0054		mg/Kg-dry	1	12/8/2004
1,1-Dichloroethane	ND	0.0054		mg/Kg-dry	1	12/8/2004
1,2-Dichloroethane	ND	0.0054		mg/Kg-dry	1	12/8/2004
1,1-Dichloroethene	ND	0.0054		mg/Kg-dry	1	12/8/2004
cis-1,2-Dichloroethene	ND	0.0054		mg/Kg-dry	1	12/8/2004
trans-1,2-Dichloroethene	ND	0.0054		mg/Kg-dry	1	12/8/2004
1,2-Dichloropropane	ND	0.0054		mg/Kg-dry	1	12/8/2004
cis-1,3-Dichloropropene	ND	0.0054		mg/Kg-dry	1	12/8/2004
trans-1,3-Dichloropropene	ND	0.0054		mg/Kg-dry	1	12/8/2004
Ethylbenzene	ND	0.0054		mg/Kg-dry	1	12/8/2004
2-Hexanone	ND	0.011		mg/Kg-dry	1	12/8/2004
4-Methyl-2-pentanone	ND	0.011		mg/Kg-dry	1	12/8/2004
Methylene chloride	ND	0.011		mg/Kg-dry	1	12/8/2004
Methyl tert-butyl ether	ND	0.0054		mg/Kg-dry	1	12/8/2004
Styrene	ND	0.0054		mg/Kg-dry	1	12/8/2004
1,1,2,2-Tetrachloroethane	ND	0.0054		mg/Kg-dry	1	12/8/2004
Tetrachloroethene	ND	0.0054		mg/Kg-dry	1	12/8/2004
Toluene	ND	0.0054		mg/Kg-dry	1	12/8/2004
1,1,1-Trichloroethane	ND	0.0054		mg/Kg-dry	1	12/8/2004
1,1,2-Trichloroethane	ND	0.0054		mg/Kg-dry	1	12/8/2004
Trichloroethene	ND	0.0054		mg/Kg-dry	1	12/8/2004
Vinyl chloride	ND	0.0054		mg/Kg-dry	1	12/8/2004
Xylenes, Total	ND	0.011		mg/Kg-dry	1	12/8/2004

Qualifiers:
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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB54-002
Lab Order:	0412059	**Tag Number:**	14-16'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 10:55:00 AM
Lab ID:	0412059-006B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/7/2004**		Analyst: **JF**
TPH (Gasoline)	ND	22	*	mg/Kg-dry	1	12/8/2004
TPH (Diesel)	ND	22	*	mg/Kg-dry	1	12/8/2004
TPH (Oil)	ND	22	*	mg/Kg-dry	1	12/8/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **VS**
Acenaphthene	0.046	0.03		mg/Kg-dry	1	12/7/2004
Acenaphthylene	ND	0.03		mg/Kg-dry	1	12/7/2004
Anthracene	0.046	0.03		mg/Kg-dry	1	12/7/2004
Benz(a)anthracene	0.037	0.03		mg/Kg-dry	1	12/7/2004
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	12/7/2004
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	12/7/2004
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	12/7/2004
Benzo(a)pyrene	0.034	0.03		mg/Kg-dry	1	12/7/2004
Chrysene	0.045	0.03		mg/Kg-dry	1	12/7/2004
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	12/7/2004
Fluoranthene	0.062	0.03		mg/Kg-dry	1	12/7/2004
Fluorene	0.049	0.03		mg/Kg-dry	1	12/7/2004
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	12/7/2004
Naphthalene	0.26	0.03		mg/Kg-dry	1	12/7/2004
Phenanthrene	0.15	0.03		mg/Kg-dry	1	12/7/2004
Pyrene	0.095	0.03		mg/Kg-dry	1	12/7/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.4		mg/Kg-dry	1	12/8/2004
Bis(2-chloroethyl)ether	ND	0.4		mg/Kg-dry	1	12/8/2004
Bis(2-ethylhexyl)phthalate	ND	0.4		mg/Kg-dry	1	12/8/2004
4-Bromophenyl phenyl ether	ND	0.4		mg/Kg-dry	1	12/8/2004
Butyl benzyl phthalate	ND	0.4		mg/Kg-dry	1	12/8/2004
Carbazole	ND	0.4		mg/Kg-dry	1	12/8/2004
4-Chloro-3-methylphenol	ND	0.4		mg/Kg-dry	1	12/8/2004
4-Chloroaniline	ND	0.4		mg/Kg-dry	1	12/8/2004
2-Chloronaphthalene	ND	0.4		mg/Kg-dry	1	12/8/2004
2-Chlorophenol	ND	0.4		mg/Kg-dry	1	12/8/2004
4-Chlorophenyl phenyl ether	ND	0.4		mg/Kg-dry	1	12/8/2004
Dibenzofuran	ND	0.4		mg/Kg-dry	1	12/8/2004
1,2-Dichlorobenzene	ND	0.4		mg/Kg-dry	1	12/8/2004
1,3-Dichlorobenzene	ND	0.4		mg/Kg-dry	1	12/8/2004
1,4-Dichlorobenzene	ND	0.4		mg/Kg-dry	1	12/8/2004
3,3´-Dichlorobenzidine	ND	0.79		mg/Kg-dry	1	12/8/2004

Qualifiers:
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB54-002
Lab Order:	0412059	**Tag Number:**	14-16'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 10:55:00 AM
Lab ID:	0412059-006B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.4		mg/Kg-dry	1	12/8/2004
Diethyl phthalate	ND	0.4		mg/Kg-dry	1	12/8/2004
Dimethyl phthalate	ND	0.4		mg/Kg-dry	1	12/8/2004
Di-n-butyl phthalate	ND	0.4		mg/Kg-dry	1	12/8/2004
2,4-Dimethylphenol	ND	0.4		mg/Kg-dry	1	12/8/2004
4,6-Dinitro-2-methylphenol	ND	1.9		mg/Kg-dry	1	12/8/2004
2,4-Dinitrophenol	ND	1.9		mg/Kg-dry	1	12/8/2004
2,4-Dinitrotoluene	ND	0.2		mg/Kg-dry	1	12/8/2004
2,6-Dinitrotoluene	ND	0.2		mg/Kg-dry	1	12/8/2004
Di-n-octyl phthalate	ND	0.4		mg/Kg-dry	1	12/8/2004
Hexachlorobenzene	ND	0.4		mg/Kg-dry	1	12/8/2004
Hexachlorobutadiene	ND	0.4		mg/Kg-dry	1	12/8/2004
Hexachlorocyclopentadiene	ND	0.4		mg/Kg-dry	1	12/8/2004
Hexachloroethane	ND	0.4		mg/Kg-dry	1	12/8/2004
Isophorone	ND	0.4		mg/Kg-dry	1	12/8/2004
2-Methylnaphthalene	ND	0.4		mg/Kg-dry	1	12/8/2004
2-Methylphenol	ND	0.4		mg/Kg-dry	1	12/8/2004
4-Methylphenol	ND	0.4		mg/Kg-dry	1	12/8/2004
2-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/8/2004
3-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/8/2004
4-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/8/2004
Nitrobenzene	ND	0.2		mg/Kg-dry	1	12/8/2004
2-Nitrophenol	ND	0.4		mg/Kg-dry	1	12/8/2004
4-Nitrophenol	ND	1.9		mg/Kg-dry	1	12/8/2004
N-Nitrosodi-n-propylamine	ND	0.2		mg/Kg-dry	1	12/8/2004
N-Nitrosodiphenylamine	ND	0.4		mg/Kg-dry	1	12/8/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.4		mg/Kg-dry	1	12/8/2004
Pentachlorophenol	ND	1.9		mg/Kg-dry	1	12/8/2004
Phenol	ND	0.4		mg/Kg-dry	1	12/8/2004
1,2,4-Trichlorobenzene	ND	0.4		mg/Kg-dry	1	12/8/2004
2,4,5-Trichlorophenol	ND	0.79		mg/Kg-dry	1	12/8/2004
2,4,6-Trichlorophenol	ND	0.4		mg/Kg-dry	1	12/8/2004
Percent Moisture	**D2974**			Prep Date: **12/3/2004**		Analyst: **RW**
Percent Moisture	17.42	0.01	*	wt%	1	12/4/2004

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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB58-001
Lab Order:	0412059	**Tag Number:**	12-14'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 12:40:00 PM
Lab ID:	0412059-007A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/3/2004**		Analyst: **PS**
Acetone	ND	0.047		mg/Kg-dry	1	12/8/2004
Benzene	ND	0.0094		mg/Kg-dry	1	12/8/2004
Bromodichloromethane	ND	0.0094		mg/Kg-dry	1	12/8/2004
Bromoform	ND	0.0094		mg/Kg-dry	1	12/8/2004
Bromomethane	ND	0.019		mg/Kg-dry	1	12/8/2004
2-Butanone	ND	0.019		mg/Kg-dry	1	12/8/2004
Carbon disulfide	ND	0.0094		mg/Kg-dry	1	12/8/2004
Carbon tetrachloride	ND	0.0094		mg/Kg-dry	1	12/8/2004
Chlorobenzene	ND	0.0094		mg/Kg-dry	1	12/8/2004
Chloroethane	ND	0.019		mg/Kg-dry	1	12/8/2004
Chloroform	ND	0.0094		mg/Kg-dry	1	12/8/2004
Chloromethane	ND	0.0094		mg/Kg-dry	1	12/8/2004
Dibromochloromethane	ND	0.0094		mg/Kg-dry	1	12/8/2004
1,1-Dichloroethane	ND	0.0094		mg/Kg-dry	1	12/8/2004
1,2-Dichloroethane	ND	0.0094		mg/Kg-dry	1	12/8/2004
1,1-Dichloroethene	ND	0.0094		mg/Kg-dry	1	12/8/2004
cis-1,2-Dichloroethene	ND	0.0094		mg/Kg-dry	1	12/8/2004
trans-1,2-Dichloroethene	ND	0.0094		mg/Kg-dry	1	12/8/2004
1,2-Dichloropropane	ND	0.0094		mg/Kg-dry	1	12/8/2004
cis-1,3-Dichloropropene	ND	0.0094		mg/Kg-dry	1	12/8/2004
trans-1,3-Dichloropropene	ND	0.0094		mg/Kg-dry	1	12/8/2004
Ethylbenzene	ND	0.0094		mg/Kg-dry	1	12/8/2004
2-Hexanone	ND	0.019		mg/Kg-dry	1	12/8/2004
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	12/8/2004
Methylene chloride	ND	0.019		mg/Kg-dry	1	12/8/2004
Methyl tert-butyl ether	ND	0.0094		mg/Kg-dry	1	12/8/2004
Styrene	ND	0.0094		mg/Kg-dry	1	12/8/2004
1,1,2,2-Tetrachloroethane	ND	0.0094		mg/Kg-dry	1	12/8/2004
Tetrachloroethene	ND	0.0094		mg/Kg-dry	1	12/8/2004
Toluene	ND	0.0094		mg/Kg-dry	1	12/8/2004
1,1,1-Trichloroethane	ND	0.0094		mg/Kg-dry	1	12/8/2004
1,1,2-Trichloroethane	ND	0.0094		mg/Kg-dry	1	12/8/2004
Trichloroethene	ND	0.0094		mg/Kg-dry	1	12/8/2004
Vinyl chloride	ND	0.0094		mg/Kg-dry	1	12/8/2004
Xylenes, Total	ND	0.019		mg/Kg-dry	1	12/8/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB58-001
Lab Order:	0412059	**Tag Number:**	12-14'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 12:40:00 PM
Lab ID:	0412059-007B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/7/2004**		Analyst: **JF**
TPH (Gasoline)	ND	31	*	mg/Kg-dry	1	12/8/2004
TPH (Diesel)	300	31	*	mg/Kg-dry	1	12/8/2004
TPH (Oil)	1100	31	*	mg/Kg-dry	1	12/8/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **VS**
Acenaphthene	4.3	0.41		mg/Kg-dry	10	12/8/2004
Acenaphthylene	0.45	0.41		mg/Kg-dry	10	12/8/2004
Anthracene	11	4.1		mg/Kg-dry	100	12/8/2004
Benz(a)anthracene	14	4.1		mg/Kg-dry	100	12/8/2004
Benzo(b)fluoranthene	8.5	4.1		mg/Kg-dry	100	12/8/2004
Benzo(k)fluoranthene	9.8	4.1		mg/Kg-dry	100	12/8/2004
Benzo(g,h,i)perylene	3.2	0.41		mg/Kg-dry	10	12/8/2004
Benzo(a)pyrene	12	4.1		mg/Kg-dry	100	12/8/2004
Chrysene	12	4.1		mg/Kg-dry	100	12/8/2004
Dibenz(a,h)anthracene	1.6	0.41		mg/Kg-dry	10	12/8/2004
Fluoranthene	27	4.1		mg/Kg-dry	100	12/8/2004
Fluorene	6.2	4.1		mg/Kg-dry	100	12/8/2004
Indeno(1,2,3-cd)pyrene	3.8	0.41		mg/Kg-dry	10	12/8/2004
Naphthalene	4	0.41		mg/Kg-dry	10	12/8/2004
Phenanthrene	27	4.1		mg/Kg-dry	100	12/8/2004
Pyrene	23	4.1		mg/Kg-dry	100	12/8/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.54		mg/Kg-dry	1	12/8/2004
Bis(2-chloroethyl)ether	ND	0.54		mg/Kg-dry	1	12/8/2004
Bis(2-ethylhexyl)phthalate	ND	0.54		mg/Kg-dry	1	12/8/2004
4-Bromophenyl phenyl ether	ND	0.54		mg/Kg-dry	1	12/8/2004
Butyl benzyl phthalate	ND	0.54		mg/Kg-dry	1	12/8/2004
Carbazole	6.8	0.54		mg/Kg-dry	1	12/8/2004
4-Chloro-3-methylphenol	ND	0.54		mg/Kg-dry	1	12/8/2004
4-Chloroaniline	ND	0.54		mg/Kg-dry	1	12/8/2004
2-Chloronaphthalene	ND	0.54		mg/Kg-dry	1	12/8/2004
2-Chlorophenol	ND	0.54		mg/Kg-dry	1	12/8/2004
4-Chlorophenyl phenyl ether	ND	0.54		mg/Kg-dry	1	12/8/2004
Dibenzofuran	4.6	0.54		mg/Kg-dry	1	12/8/2004
1,2-Dichlorobenzene	ND	0.54		mg/Kg-dry	1	12/8/2004
1,3-Dichlorobenzene	ND	0.54		mg/Kg-dry	1	12/8/2004
1,4-Dichlorobenzene	ND	0.54		mg/Kg-dry	1	12/8/2004
3,3´-Dichlorobenzidine	ND	1.1		mg/Kg-dry	1	12/8/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB58-001
Lab Order:	0412059	**Tag Number:**	12-14'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 12:40:00 PM
Lab ID:	0412059-007B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.54		mg/Kg-dry	1	12/8/2004
Diethyl phthalate	ND	0.54		mg/Kg-dry	1	12/8/2004
Dimethyl phthalate	ND	0.54		mg/Kg-dry	1	12/8/2004
Di-n-butyl phthalate	ND	0.54		mg/Kg-dry	1	12/8/2004
2,4-Dimethylphenol	ND	0.54		mg/Kg-dry	1	12/8/2004
4,6-Dinitro-2-methylphenol	ND	2.6		mg/Kg-dry	1	12/8/2004
2,4-Dinitrophenol	ND	2.6		mg/Kg-dry	1	12/8/2004
2,4-Dinitrotoluene	ND	0.28		mg/Kg-dry	1	12/8/2004
2,6-Dinitrotoluene	ND	0.28		mg/Kg-dry	1	12/8/2004
Di-n-octyl phthalate	ND	0.54		mg/Kg-dry	1	12/8/2004
Hexachlorobenzene	ND	0.54		mg/Kg-dry	1	12/8/2004
Hexachlorobutadiene	ND	0.54		mg/Kg-dry	1	12/8/2004
Hexachlorocyclopentadiene	ND	0.54		mg/Kg-dry	1	12/8/2004
Hexachloroethane	ND	0.54		mg/Kg-dry	1	12/8/2004
Isophorone	ND	0.54		mg/Kg-dry	1	12/8/2004
2-Methylnaphthalene	3.8	0.54		mg/Kg-dry	1	12/8/2004
2-Methylphenol	ND	0.54		mg/Kg-dry	1	12/8/2004
4-Methylphenol	2.2	0.54		mg/Kg-dry	1	12/8/2004
2-Nitroaniline	ND	2.6		mg/Kg-dry	1	12/8/2004
3-Nitroaniline	ND	2.6		mg/Kg-dry	1	12/8/2004
4-Nitroaniline	ND	2.6		mg/Kg-dry	1	12/8/2004
Nitrobenzene	ND	0.28		mg/Kg-dry	1	12/8/2004
2-Nitrophenol	ND	0.54		mg/Kg-dry	1	12/8/2004
4-Nitrophenol	ND	2.6		mg/Kg-dry	1	12/8/2004
N-Nitrosodi-n-propylamine	ND	0.28		mg/Kg-dry	1	12/8/2004
N-Nitrosodiphenylamine	ND	0.54		mg/Kg-dry	1	12/8/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.54		mg/Kg-dry	1	12/8/2004
Pentachlorophenol	ND	2.6		mg/Kg-dry	1	12/8/2004
Phenol	ND	0.54		mg/Kg-dry	1	12/8/2004
1,2,4-Trichlorobenzene	ND	0.54		mg/Kg-dry	1	12/8/2004
2,4,5-Trichlorophenol	ND	1.1		mg/Kg-dry	1	12/8/2004
2,4,6-Trichlorophenol	ND	0.54		mg/Kg-dry	1	12/8/2004
Percent Moisture	**D2974**			Prep Date: **12/3/2004**		Analyst: **RW**
Percent Moisture	39.73	0.01	*	wt%	1	12/4/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB58-002
Lab Order:	0412059	**Tag Number:**	16-18'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 1:10:00 PM
Lab ID:	0412059-008A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/3/2004**		Analyst: **PS**
Acetone	ND UJ	0.031		mg/Kg-dry	1	12/8/2004
Benzene	ND	0.0061		mg/Kg-dry	1	12/8/2004
Bromodichloromethane	ND	0.0061		mg/Kg-dry	1	12/8/2004
Bromoform	ND	0.0061		mg/Kg-dry	1	12/8/2004
Bromomethane	ND	0.012		mg/Kg-dry	1	12/8/2004
2-Butanone	ND	0.012		mg/Kg-dry	1	12/8/2004
Carbon disulfide	ND	0.0061		mg/Kg-dry	1	12/8/2004
Carbon tetrachloride	ND	0.0061		mg/Kg-dry	1	12/8/2004
Chlorobenzene	ND	0.0061		mg/Kg-dry	1	12/8/2004
Chloroethane	ND	0.012		mg/Kg-dry	1	12/8/2004
Chloroform	ND	0.0061		mg/Kg-dry	1	12/8/2004
Chloromethane	ND	0.0061		mg/Kg-dry	1	12/8/2004
Dibromochloromethane	ND	0.0061		mg/Kg-dry	1	12/8/2004
1,1-Dichloroethane	ND	0.0061		mg/Kg-dry	1	12/8/2004
1,2-Dichloroethane	ND	0.0061		mg/Kg-dry	1	12/8/2004
1,1-Dichloroethene	ND	0.0061		mg/Kg-dry	1	12/8/2004
cis-1,2-Dichloroethene	ND	0.0061		mg/Kg-dry	1	12/8/2004
trans-1,2-Dichloroethene	ND	0.0061		mg/Kg-dry	1	12/8/2004
1,2-Dichloropropane	ND	0.0061		mg/Kg-dry	1	12/8/2004
cis-1,3-Dichloropropene	ND	0.0061		mg/Kg-dry	1	12/8/2004
trans-1,3-Dichloropropene	ND	0.0061		mg/Kg-dry	1	12/8/2004
Ethylbenzene	ND	0.0061		mg/Kg-dry	1	12/8/2004
2-Hexanone	ND	0.012		mg/Kg-dry	1	12/8/2004
4-Methyl-2-pentanone	ND	0.012		mg/Kg-dry	1	12/8/2004
Methylene chloride	ND	0.012		mg/Kg-dry	1	12/8/2004
Methyl tert-butyl ether	ND	0.0061		mg/Kg-dry	1	12/8/2004
Styrene	ND	0.0061		mg/Kg-dry	1	12/8/2004
1,1,2,2-Tetrachloroethane	ND	0.0061		mg/Kg-dry	1	12/8/2004
Tetrachloroethene	ND	0.0061		mg/Kg-dry	1	12/8/2004
Toluene	ND	0.0061		mg/Kg-dry	1	12/8/2004
1,1,1-Trichloroethane	ND	0.0061		mg/Kg-dry	1	12/8/2004
1,1,2-Trichloroethane	ND	0.0061		mg/Kg-dry	1	12/8/2004
Trichloroethene	ND	0.0061		mg/Kg-dry	1	12/8/2004
Vinyl chloride	ND	0.0061		mg/Kg-dry	1	12/8/2004
Xylenes, Total	ND	0.012		mg/Kg-dry	1	12/8/2004

UJ = estimated non-detect value; poor surrogate recovery. SFA

Qualifiers:
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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB58-002
Lab Order:	0412059	**Tag Number:**	16-18'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 1:10:00 PM
Lab ID:	0412059-008B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/7/2004**		Analyst: **JF**
TPH (Gasoline)	ND	23	*	mg/Kg-dry	1	12/9/2004
TPH (Diesel)	ND	23	*	mg/Kg-dry	1	12/9/2004
TPH (Oil)	25	23	*	mg/Kg-dry	1	12/9/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **VS**
Acenaphthene	0.072	0.031		mg/Kg-dry	1	12/7/2004
Acenaphthylene	ND	0.031		mg/Kg-dry	1	12/7/2004
Anthracene	0.079	0.031		mg/Kg-dry	1	12/7/2004
Benz(a)anthracene	0.065	0.031		mg/Kg-dry	1	12/7/2004
Benzo(b)fluoranthene	0.038	0.031		mg/Kg-dry	1	12/7/2004
Benzo(k)fluoranthene	0.038	0.031		mg/Kg-dry	1	12/7/2004
Benzo(g,h,i)perylene	ND	0.031		mg/Kg-dry	1	12/7/2004
Benzo(a)pyrene	0.059	0.031		mg/Kg-dry	1	12/7/2004
Chrysene	0.061	0.031		mg/Kg-dry	1	12/7/2004
Dibenz(a,h)anthracene	ND	0.031		mg/Kg-dry	1	12/7/2004
Fluoranthene	0.14	0.031		mg/Kg-dry	1	12/7/2004
Fluorene	0.088	0.031		mg/Kg-dry	1	12/7/2004
Indeno(1,2,3-cd)pyrene	ND	0.031		mg/Kg-dry	1	12/7/2004
Naphthalene	0.39	0.031		mg/Kg-dry	1	12/7/2004
Phenanthrene	0.24	0.031		mg/Kg-dry	1	12/7/2004
Pyrene	0.11	0.031		mg/Kg-dry	1	12/7/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.41		mg/Kg-dry	1	12/8/2004
Bis(2-chloroethyl)ether	ND	0.41		mg/Kg-dry	1	12/8/2004
Bis(2-ethylhexyl)phthalate	ND	0.41		mg/Kg-dry	1	12/8/2004
4-Bromophenyl phenyl ether	ND	0.41		mg/Kg-dry	1	12/8/2004
Butyl benzyl phthalate	ND	0.41		mg/Kg-dry	1	12/8/2004
Carbazole	ND	0.41		mg/Kg-dry	1	12/8/2004
4-Chloro-3-methylphenol	ND	0.41		mg/Kg-dry	1	12/8/2004
4-Chloroaniline	ND	0.41		mg/Kg-dry	1	12/8/2004
2-Chloronaphthalene	ND	0.41		mg/Kg-dry	1	12/8/2004
2-Chlorophenol	ND	0.41		mg/Kg-dry	1	12/8/2004
4-Chlorophenyl phenyl ether	ND	0.41		mg/Kg-dry	1	12/8/2004
Dibenzofuran	ND	0.41		mg/Kg-dry	1	12/8/2004
1,2-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	12/8/2004
1,3-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	12/8/2004
1,4-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	12/8/2004
3,3´-Dichlorobenzidine	ND	0.82		mg/Kg-dry	1	12/8/2004

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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB58-002
Lab Order:	0412059	**Tag Number:**	16-18'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 1:10:00 PM
Lab ID:	0412059-008B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.41		mg/Kg-dry	1	12/8/2004
Diethyl phthalate	ND	0.41		mg/Kg-dry	1	12/8/2004
Dimethyl phthalate	ND	0.41		mg/Kg-dry	1	12/8/2004
Di-n-butyl phthalate	ND	0.41		mg/Kg-dry	1	12/8/2004
2,4-Dimethylphenol	ND	0.41		mg/Kg-dry	1	12/8/2004
4,6-Dinitro-2-methylphenol	ND	2		mg/Kg-dry	1	12/8/2004
2,4-Dinitrophenol	ND	2		mg/Kg-dry	1	12/8/2004
2,4-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/8/2004
2,6-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/8/2004
Di-n-octyl phthalate	ND	0.41		mg/Kg-dry	1	12/8/2004
Hexachlorobenzene	ND	0.41		mg/Kg-dry	1	12/8/2004
Hexachlorobutadiene	ND	0.41		mg/Kg-dry	1	12/8/2004
Hexachlorocyclopentadiene	ND	0.41		mg/Kg-dry	1	12/8/2004
Hexachloroethane	ND	0.41		mg/Kg-dry	1	12/8/2004
Isophorone	ND	0.41		mg/Kg-dry	1	12/8/2004
2-Methylnaphthalene	ND	0.41		mg/Kg-dry	1	12/8/2004
2-Methylphenol	ND	0.41		mg/Kg-dry	1	12/8/2004
4-Methylphenol	ND	0.41		mg/Kg-dry	1	12/8/2004
2-Nitroaniline	ND	2		mg/Kg-dry	1	12/8/2004
3-Nitroaniline	ND	2		mg/Kg-dry	1	12/8/2004
4-Nitroaniline	ND	2		mg/Kg-dry	1	12/8/2004
Nitrobenzene	ND	0.21		mg/Kg-dry	1	12/8/2004
2-Nitrophenol	ND	0.41		mg/Kg-dry	1	12/8/2004
4-Nitrophenol	ND	2		mg/Kg-dry	1	12/8/2004
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	12/8/2004
N-Nitrosodiphenylamine	ND	0.41		mg/Kg-dry	1	12/8/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.41		mg/Kg-dry	1	12/8/2004
Pentachlorophenol	ND	2		mg/Kg-dry	1	12/8/2004
Phenol	ND	0.41		mg/Kg-dry	1	12/8/2004
1,2,4-Trichlorobenzene	ND	0.41		mg/Kg-dry	1	12/8/2004
2,4,5-Trichlorophenol	ND	0.82		mg/Kg-dry	1	12/8/2004
2,4,6-Trichlorophenol	ND	0.41		mg/Kg-dry	1	12/8/2004
Percent Moisture	**D2974**			Prep Date: **12/3/2004**		Analyst: **RW**
Percent Moisture	20.26	0.01	*	wt%	1	12/4/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB58-003
Lab Order:	0412059	**Tag Number:**	8-10'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 12:45:00 PM
Lab ID:	0412059-009A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/3/2004**		Analyst: **PS**
Acetone	0.047 J	0.046		mg/Kg-dry	1	12/8/2004
Benzene	ND UJ	0.0093		mg/Kg-dry	1	12/8/2004
Bromodichloromethane	ND	0.0093		mg/Kg-dry	1	12/8/2004
Bromoform	ND	0.0093		mg/Kg-dry	1	12/8/2004
Bromomethane	ND	0.019		mg/Kg-dry	1	12/8/2004
2-Butanone	ND	0.019		mg/Kg-dry	1	12/8/2004
Carbon disulfide	ND	0.0093		mg/Kg-dry	1	12/8/2004
Carbon tetrachloride	ND	0.0093		mg/Kg-dry	1	12/8/2004
Chlorobenzene	ND	0.0093		mg/Kg-dry	1	12/8/2004
Chloroethane	ND	0.019		mg/Kg-dry	1	12/8/2004
Chloroform	ND	0.0093		mg/Kg-dry	1	12/8/2004
Chloromethane	ND	0.0093		mg/Kg-dry	1	12/8/2004
Dibromochloromethane	ND	0.0093		mg/Kg-dry	1	12/8/2004
1,1-Dichloroethane	ND	0.0093		mg/Kg-dry	1	12/8/2004
1,2-Dichloroethane	ND	0.0093		mg/Kg-dry	1	12/8/2004
1,1-Dichloroethene	ND	0.0093		mg/Kg-dry	1	12/8/2004
cis-1,2-Dichloroethene	ND	0.0093		mg/Kg-dry	1	12/8/2004
trans-1,2-Dichloroethene	ND	0.0093		mg/Kg-dry	1	12/8/2004
1,2-Dichloropropane	ND	0.0093		mg/Kg-dry	1	12/8/2004
cis-1,3-Dichloropropene	ND	0.0093		mg/Kg-dry	1	12/8/2004
trans-1,3-Dichloropropene	ND	0.0093		mg/Kg-dry	1	12/8/2004
Ethylbenzene	ND	0.0093		mg/Kg-dry	1	12/8/2004
2-Hexanone	ND	0.019		mg/Kg-dry	1	12/8/2004
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	12/8/2004
Methylene chloride	ND	0.019		mg/Kg-dry	1	12/8/2004
Methyl tert-butyl ether	ND	0.0093		mg/Kg-dry	1	12/8/2004
Styrene	ND	0.0093		mg/Kg-dry	1	12/8/2004
1,1,2,2-Tetrachloroethane	ND	0.0093		mg/Kg-dry	1	12/8/2004
Tetrachloroethene	ND	0.0093		mg/Kg-dry	1	12/8/2004
Toluene	ND	0.0093		mg/Kg-dry	1	12/8/2004
1,1,1-Trichloroethane	ND	0.0093		mg/Kg-dry	1	12/8/2004
1,1,2-Trichloroethane	ND	0.0093		mg/Kg-dry	1	12/8/2004
Trichloroethene	ND	0.0093		mg/Kg-dry	1	12/8/2004
Vinyl chloride	ND	0.0093		mg/Kg-dry	1	12/8/2004
Xylenes, Total	ND	0.019		mg/Kg-dry	1	12/8/2004

J = estimated value; poor surrogate recovery. SFA
UJ = estimated non-detect value; poor surrogate recovery. SFA

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB58-003
Lab Order:	0412059	**Tag Number:**	8-10'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 12:45:00 PM
Lab ID:	0412059-009B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/7/2004**		Analyst: **JF**
TPH (Gasoline)	43	31	*	mg/Kg-dry	1	12/9/2004
TPH (Diesel)	5100	31	*	mg/Kg-dry	1	12/9/2004
TPH (Oil)	500	31	*	mg/Kg-dry	1	12/9/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **VS**
Acenaphthene	1.3	0.39		mg/Kg-dry	10	12/8/2004
Acenaphthylene	0.63	0.39		mg/Kg-dry	10	12/8/2004
Anthracene	1.1	0.39		mg/Kg-dry	10	12/8/2004
Benz(a)anthracene	2.2	0.39		mg/Kg-dry	10	12/8/2004
Benzo(b)fluoranthene	2.3	0.39		mg/Kg-dry	10	12/8/2004
Benzo(k)fluoranthene	1.7	0.39		mg/Kg-dry	10	12/8/2004
Benzo(g,h,i)perylene	1.2	0.39		mg/Kg-dry	10	12/8/2004
Benzo(a)pyrene	2.4	0.39		mg/Kg-dry	10	12/8/2004
Chrysene	2	0.39		mg/Kg-dry	10	12/8/2004
Dibenz(a,h)anthracene	0.45	0.39		mg/Kg-dry	10	12/8/2004
Fluoranthene	4.2	0.39		mg/Kg-dry	10	12/8/2004
Fluorene	1.4	0.39		mg/Kg-dry	10	12/8/2004
Indeno(1,2,3-cd)pyrene	1.2	0.39		mg/Kg-dry	10	12/8/2004
Naphthalene	0.87	0.39		mg/Kg-dry	10	12/8/2004
Phenanthrene	1.3	0.39		mg/Kg-dry	10	12/8/2004
Pyrene	4.7	0.39		mg/Kg-dry	10	12/8/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.51		mg/Kg-dry	1	12/8/2004
Bis(2-chloroethyl)ether	ND	0.51		mg/Kg-dry	1	12/8/2004
Bis(2-ethylhexyl)phthalate	ND	0.51		mg/Kg-dry	1	12/8/2004
4-Bromophenyl phenyl ether	ND	0.51		mg/Kg-dry	1	12/8/2004
Butyl benzyl phthalate	ND	0.51		mg/Kg-dry	1	12/8/2004
Carbazole	ND	0.51		mg/Kg-dry	1	12/8/2004
4-Chloro-3-methylphenol	ND	0.51		mg/Kg-dry	1	12/8/2004
4-Chloroaniline	ND	0.51		mg/Kg-dry	1	12/8/2004
2-Chloronaphthalene	ND	0.51		mg/Kg-dry	1	12/8/2004
2-Chlorophenol	ND	0.51		mg/Kg-dry	1	12/8/2004
4-Chlorophenyl phenyl ether	ND	0.51		mg/Kg-dry	1	12/8/2004
Dibenzofuran	ND	0.51		mg/Kg-dry	1	12/8/2004
1,2-Dichlorobenzene	ND	0.51		mg/Kg-dry	1	12/8/2004
1,3-Dichlorobenzene	ND	0.51		mg/Kg-dry	1	12/8/2004
1,4-Dichlorobenzene	ND	0.51		mg/Kg-dry	1	12/8/2004
3,3´-Dichlorobenzidine	ND	1		mg/Kg-dry	1	12/8/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB58-003
Lab Order:	0412059	**Tag Number:**	8-10'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 12:45:00 PM
Lab ID:	0412059-009B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.51		mg/Kg-dry	1	12/8/2004
Diethyl phthalate	ND	0.51		mg/Kg-dry	1	12/8/2004
Dimethyl phthalate	ND	0.51		mg/Kg-dry	1	12/8/2004
Di-n-butyl phthalate	ND	0.51		mg/Kg-dry	1	12/8/2004
2,4-Dimethylphenol	ND	0.51		mg/Kg-dry	1	12/8/2004
4,6-Dinitro-2-methylphenol	ND	2.5		mg/Kg-dry	1	12/8/2004
2,4-Dinitrophenol	ND	2.5		mg/Kg-dry	1	12/8/2004
2,4-Dinitrotoluene	ND	0.26		mg/Kg-dry	1	12/8/2004
2,6-Dinitrotoluene	ND	0.26		mg/Kg-dry	1	12/8/2004
Di-n-octyl phthalate	ND	0.51		mg/Kg-dry	1	12/8/2004
Hexachlorobenzene	ND	0.51		mg/Kg-dry	1	12/8/2004
Hexachlorobutadiene	ND	0.51		mg/Kg-dry	1	12/8/2004
Hexachlorocyclopentadiene	ND	0.51		mg/Kg-dry	1	12/8/2004
Hexachloroethane	ND	0.51		mg/Kg-dry	1	12/8/2004
Isophorone	ND	0.51		mg/Kg-dry	1	12/8/2004
2-Methylnaphthalene	1.3	0.51		mg/Kg-dry	1	12/8/2004
2-Methylphenol	ND	0.51		mg/Kg-dry	1	12/8/2004
4-Methylphenol	ND	0.51		mg/Kg-dry	1	12/8/2004
2-Nitroaniline	ND	2.5		mg/Kg-dry	1	12/8/2004
3-Nitroaniline	ND	2.5		mg/Kg-dry	1	12/8/2004
4-Nitroaniline	ND	2.5		mg/Kg-dry	1	12/8/2004
Nitrobenzene	ND	0.26		mg/Kg-dry	1	12/8/2004
2-Nitrophenol	ND	0.51		mg/Kg-dry	1	12/8/2004
4-Nitrophenol	ND	2.5		mg/Kg-dry	1	12/8/2004
N-Nitrosodi-n-propylamine	ND	0.26		mg/Kg-dry	1	12/8/2004
N-Nitrosodiphenylamine	ND	0.51		mg/Kg-dry	1	12/8/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.51		mg/Kg-dry	1	12/8/2004
Pentachlorophenol	ND	2.5		mg/Kg-dry	1	12/8/2004
Phenol	ND	0.51		mg/Kg-dry	1	12/8/2004
1,2,4-Trichlorobenzene	ND	0.51		mg/Kg-dry	1	12/8/2004
2,4,5-Trichlorophenol	ND	1		mg/Kg-dry	1	12/8/2004
2,4,6-Trichlorophenol	ND	0.51		mg/Kg-dry	1	12/8/2004
Percent Moisture	**D2974**			Prep Date: **12/3/2004**		Analyst: **RW**
Percent Moisture	36.81	0.01	*	wt%	1	12/4/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB49B-001
Lab Order:	0412059	**Tag Number:**	14-16'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 2:10:00 PM
Lab ID:	0412059-010A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/3/2004**		Analyst: **PS**
Acetone	ND	0.031		mg/Kg-dry	1	12/8/2004
Benzene	ND	0.0063		mg/Kg-dry	1	12/8/2004
Bromodichloromethane	ND	0.0063		mg/Kg-dry	1	12/8/2004
Bromoform	ND	0.0063		mg/Kg-dry	1	12/8/2004
Bromomethane	ND	0.013		mg/Kg-dry	1	12/8/2004
2-Butanone	ND	0.013		mg/Kg-dry	1	12/8/2004
Carbon disulfide	ND	0.0063		mg/Kg-dry	1	12/8/2004
Carbon tetrachloride	ND	0.0063		mg/Kg-dry	1	12/8/2004
Chlorobenzene	ND	0.0063		mg/Kg-dry	1	12/8/2004
Chloroethane	ND	0.013		mg/Kg-dry	1	12/8/2004
Chloroform	ND	0.0063		mg/Kg-dry	1	12/8/2004
Chloromethane	ND	0.0063		mg/Kg-dry	1	12/8/2004
Dibromochloromethane	ND	0.0063		mg/Kg-dry	1	12/8/2004
1,1-Dichloroethane	ND	0.0063		mg/Kg-dry	1	12/8/2004
1,2-Dichloroethane	ND	0.0063		mg/Kg-dry	1	12/8/2004
1,1-Dichloroethene	ND	0.0063		mg/Kg-dry	1	12/8/2004
cis-1,2-Dichloroethene	ND	0.0063		mg/Kg-dry	1	12/8/2004
trans-1,2-Dichloroethene	ND	0.0063		mg/Kg-dry	1	12/8/2004
1,2-Dichloropropane	ND	0.0063		mg/Kg-dry	1	12/8/2004
cis-1,3-Dichloropropene	ND	0.0063		mg/Kg-dry	1	12/8/2004
trans-1,3-Dichloropropene	ND	0.0063		mg/Kg-dry	1	12/8/2004
Ethylbenzene	ND	0.0063		mg/Kg-dry	1	12/8/2004
2-Hexanone	ND	0.013		mg/Kg-dry	1	12/8/2004
4-Methyl-2-pentanone	ND	0.013		mg/Kg-dry	1	12/8/2004
Methylene chloride	ND	0.013		mg/Kg-dry	1	12/8/2004
Methyl tert-butyl ether	ND	0.0063		mg/Kg-dry	1	12/8/2004
Styrene	ND	0.0063		mg/Kg-dry	1	12/8/2004
1,1,2,2-Tetrachloroethane	ND	0.0063		mg/Kg-dry	1	12/8/2004
Tetrachloroethene	ND	0.0063		mg/Kg-dry	1	12/8/2004
Toluene	ND	0.0063		mg/Kg-dry	1	12/8/2004
1,1,1-Trichloroethane	ND	0.0063		mg/Kg-dry	1	12/8/2004
1,1,2-Trichloroethane	ND	0.0063		mg/Kg-dry	1	12/8/2004
Trichloroethene	ND	0.0063		mg/Kg-dry	1	12/8/2004
Vinyl chloride	ND	0.0063		mg/Kg-dry	1	12/8/2004
Xylenes, Total	ND	0.013		mg/Kg-dry	1	12/8/2004

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2201 West Campbell Park Drive Chicago, IL 60612-3547
Tel: (312) 563-0371 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB49B-001
Lab Order:	0412059	**Tag Number:**	14-16'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 2:10:00 PM
Lab ID:	0412059-010B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/7/2004**		Analyst: **JF**
TPH (Gasoline)	ND	22	*	mg/Kg-dry	1	12/9/2004
TPH (Diesel)	ND	22	*	mg/Kg-dry	1	12/9/2004
TPH (Oil)	ND	22	*	mg/Kg-dry	1	12/9/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **VS**
Acenaphthene	ND	0.031		mg/Kg-dry	1	12/7/2004
Acenaphthylene	ND	0.031		mg/Kg-dry	1	12/7/2004
Anthracene	ND	0.031		mg/Kg-dry	1	12/7/2004
Benz(a)anthracene	0.035	0.031		mg/Kg-dry	1	12/7/2004
Benzo(b)fluoranthene	ND	0.031		mg/Kg-dry	1	12/7/2004
Benzo(k)fluoranthene	0.032	0.031		mg/Kg-dry	1	12/7/2004
Benzo(g,h,i)perylene	ND	0.031		mg/Kg-dry	1	12/7/2004
Benzo(a)pyrene	0.041	0.031		mg/Kg-dry	1	12/7/2004
Chrysene	0.053	0.031		mg/Kg-dry	1	12/7/2004
Dibenz(a,h)anthracene	ND	0.031		mg/Kg-dry	1	12/7/2004
Fluoranthene	0.058	0.031		mg/Kg-dry	1	12/7/2004
Fluorene	ND	0.031		mg/Kg-dry	1	12/7/2004
Indeno(1,2,3-cd)pyrene	ND	0.031		mg/Kg-dry	1	12/7/2004
Naphthalene	0.041	0.031		mg/Kg-dry	1	12/7/2004
Phenanthrene	0.079	0.031		mg/Kg-dry	1	12/7/2004
Pyrene	0.078	0.031		mg/Kg-dry	1	12/7/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.41		mg/Kg-dry	1	12/8/2004
Bis(2-chloroethyl)ether	ND	0.41		mg/Kg-dry	1	12/8/2004
Bis(2-ethylhexyl)phthalate	ND	0.41		mg/Kg-dry	1	12/8/2004
4-Bromophenyl phenyl ether	ND	0.41		mg/Kg-dry	1	12/8/2004
Butyl benzyl phthalate	ND	0.41		mg/Kg-dry	1	12/8/2004
Carbazole	ND	0.41		mg/Kg-dry	1	12/8/2004
4-Chloro-3-methylphenol	ND	0.41		mg/Kg-dry	1	12/8/2004
4-Chloroaniline	ND	0.41		mg/Kg-dry	1	12/8/2004
2-Chloronaphthalene	ND	0.41		mg/Kg-dry	1	12/8/2004
2-Chlorophenol	ND	0.41		mg/Kg-dry	1	12/8/2004
4-Chlorophenyl phenyl ether	ND	0.41		mg/Kg-dry	1	12/8/2004
Dibenzofuran	ND	0.41		mg/Kg-dry	1	12/8/2004
1,2-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	12/8/2004
1,3-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	12/8/2004
1,4-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	12/8/2004
3,3´-Dichlorobenzidine	ND	0.82		mg/Kg-dry	1	12/8/2004

Qualifiers:
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* - Non-accredited parameter
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R - RPD outside accepted recovery limits
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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB49B-001
Lab Order:	0412059	**Tag Number:**	14-16'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/2/2004 2:10:00 PM
Lab ID:	0412059-010B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.41		mg/Kg-dry	1	12/8/2004
Diethyl phthalate	ND	0.41		mg/Kg-dry	1	12/8/2004
Dimethyl phthalate	ND	0.41		mg/Kg-dry	1	12/8/2004
Di-n-butyl phthalate	ND	0.41		mg/Kg-dry	1	12/8/2004
2,4-Dimethylphenol	ND	0.41		mg/Kg-dry	1	12/8/2004
4,6-Dinitro-2-methylphenol	ND	2		mg/Kg-dry	1	12/8/2004
2,4-Dinitrophenol	ND	2		mg/Kg-dry	1	12/8/2004
2,4-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/8/2004
2,6-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/8/2004
Di-n-octyl phthalate	ND	0.41		mg/Kg-dry	1	12/8/2004
Hexachlorobenzene	ND	0.41		mg/Kg-dry	1	12/8/2004
Hexachlorobutadiene	ND	0.41		mg/Kg-dry	1	12/8/2004
Hexachlorocyclopentadiene	ND	0.41		mg/Kg-dry	1	12/8/2004
Hexachloroethane	ND	0.41		mg/Kg-dry	1	12/8/2004
Isophorone	ND	0.41		mg/Kg-dry	1	12/8/2004
2-Methylnaphthalene	ND	0.41		mg/Kg-dry	1	12/8/2004
2-Methylphenol	ND	0.41		mg/Kg-dry	1	12/8/2004
4-Methylphenol	ND	0.41		mg/Kg-dry	1	12/8/2004
2-Nitroaniline	ND	2		mg/Kg-dry	1	12/8/2004
3-Nitroaniline	ND	2		mg/Kg-dry	1	12/8/2004
4-Nitroaniline	ND	2		mg/Kg-dry	1	12/8/2004
Nitrobenzene	ND	0.21		mg/Kg-dry	1	12/8/2004
2-Nitrophenol	ND	0.41		mg/Kg-dry	1	12/8/2004
4-Nitrophenol	ND	2		mg/Kg-dry	1	12/8/2004
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	12/8/2004
N-Nitrosodiphenylamine	ND	0.41		mg/Kg-dry	1	12/8/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.41		mg/Kg-dry	1	12/8/2004
Pentachlorophenol	ND	2		mg/Kg-dry	1	12/8/2004
Phenol	ND	0.41		mg/Kg-dry	1	12/8/2004
1,2,4-Trichlorobenzene	ND	0.41		mg/Kg-dry	1	12/8/2004
2,4,5-Trichlorophenol	ND	0.82		mg/Kg-dry	1	12/8/2004
2,4,6-Trichlorophenol	ND	0.41		mg/Kg-dry	1	12/8/2004
Percent Moisture	**D2974**			Prep Date: **12/3/2004**		Analyst: **RW**
Percent Moisture	21.43	0.01	*	wt%	1	12/4/2004

Qualifiers:
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Burns & McDonnell SINCE 1898

Request for Chemical Analysis and Chain of Custody Record

ALH 12-2-04

~~Page 2 of~~

Document Control No: WSS-004-2004

Lab. Reference No. or Episode No.: 0412059

Burns & McDonnell Engineering
2601 W. 22nd St
Oak Brook, Illinois 60523
Phone: (630) 990-0300 Fax: (630) 990-0301

Attention: Diane Saftic

Laboratory: STAT
Address: 2201 West Campbell Park
City/State/Zip: Chicago, IL 60612
Telephone: (312) 563-0371

Project Number: 32088

Site Name: Willow Street Station - General Iron

Sample Number			Sample Event		Sample Depth (in feet)		Sample Collected		Sample Type: Matrix			Number of Containers	Analyte/Parameter/Method Code: WSS TCL VOCs (8260)	TCL SVOCs (8270)	TPH (8015)	Remarks
Group or SWMU Name	Sample Point	Sample Designator	Round	Year	From	To	Date	Time	Liquid	Solid	Gas					
WSS	SB52	001	1	2004	6	8	12/2/04	0805		X		4	X	X	X	PID = 68.2 ppm
WSS	SB52	002	1	2004	12	14	12/2/04	0820		X		4	X	X	X	PID = 0.0 ppm
WSS	SB55	001	1	2004	6	8	12/2/04	0925		X		4	X	X	X	PID = 10.6 ppm
WSS	SB55	002	1	2004	12	14	12/2/04	0935		X		4	X	X	X	PID = 0.0 ppm
WSS	SB54	001	1	2004	8	10	12/2/04	1040		X		4	X	X	X	PID = 148 ppm
WSS	SB54	002	1	2004	14	16	12/2/04	1055		X		4	X	X	X	PID = 0.0 ppm
WSS	SB58	001	1	2004	12	14	12/2/04	1240		X		12	X	X	X	PID = 0.0 ppm MS/MSD
WSS	SB58	002	1	2004	16	18	12/2/04	1310		X		12	X	X	X	PID = 0.0 ppm MS/MSD
WSS	SB58	003	1	2004	8	10	12/2/04	1245		X		4	X	X	X	PID = 5.2 ppm
WSS	SB49B	001	1	2004	14	16	12/2/04	1410		X		4	X	X	X	PID = 0.0 ppm
~~WSS~~	~~TB04A~~	—	—	—	—	—	—	—	X			ALH	X			Cooler #1
~~WSS~~	~~TB04B~~	—	—	—	—	—	—	—	X			ALH	X			Cooler #2

ALH 12-2-04

Sampler (signature): Amy Donnellan

Sampler (signature):

Custody Seal Number: WSS-004-2004-001 thru WSS-004-2004-004

Special Instructions: MS/MSD samples included
STANDARD TAT - 2 coolers

Relinquished By (signature): 1. Amy Donnellan — Date/Time: 12-2-04 1535

Received By (signature): — Date/Time: 12/2/04 15:35

Relinquished By (signature): 2. — Date/Time:

Received By (signature): — Date/Time:

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 5°

Laboratory Comments:

061301 Form WCD-KC1-CHI

STAT Analysis Corporation

Sample Receipt Checklist

Client Name **B&M**

Date and Time Received: **12/2/2004**

Work Order Numbe **0412059**

Received by: CDF

Checklist completed by: Jesus Canet 12/2/04 (Signature / Date)

Reviewed by: ____ 12/10/04 (Initials / Date)

Matrix: Carrier name Client Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 5 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - Samples properly preserved/ pH checked?	Yes ☐	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

STAT Analysis Corporation

Date: 15-Dec-04

CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron
Test No: SW5035/8260B **Matrix:** S

QC SUMMARY REPORT
SURROGATE RECOVERIES

Sample ID	BR4FBZ	BZMED8	DBFM	DCA12D4				
VBLK120804-2	108	96.6	97.7	102				
VLCS120804-2	100	101	100	94.5				
0412059-001A:50	94.1	100	98.5	102				
0412059-005A:100	97.9	98.2	95.8	91.8				
0412059-002A	76.3	83.2 *	96.8	104				
0412059-003A	86.5	95.9	101	106				
0412059-004A	84.4	86.7	102	108				
0412059-006A	86.2	88.0	99.7	93.3				
0412059-007A	85.6	95.9	94.1	96.8				
0412059-007AMS	89.9	98.1	102	101				
0412059-007AMSD	88.2	93.4	100	99.1				
0412059-008A	77.7	83.6 *	105	110				
0412059-008AMS	83.6	91.4	101	100				
0412059-008AMSD	78.2	88.1	102	106				
0412059-010A	80.7	85.3	105	104				
0412059-009A	59.2 *	88.9	111	101				
VBLK120804a-2	104	96.7	100	100				
VLCS120804A-2	100	99.2	104	104				
VLCSD120804A-2	102	97.7	106	109				
0412059-002AR	79.6	80.6 *	103	111				
0412059-007AMS	88.3	95.8	104	102				
0412059-007AMSD	85.1	97.5	104	107				
0412059-008AR	80.7	84.8 *	101	99.9				
0412059-008AMS	83.3	90.9	105	102				
0412059-008AMSD	85.9	87.6	99.8	105				
0412059-009AR	52.6 *	86.5	101	84.0 *				
0412059-010AR	74.9	83.2 *	104	104				

Acronym		Surrogate	QC Limits
BR4FBZ	=	4-Bromofluorobenzene	63-110
BZMED8	=	Toluene-d8	85-110
DBFM	=	Dibromofluoromethane	83-119
DCA12D4	=	1,2-Dichloroethane-d4	84-129

*** Surrogate recovery outside acceptance limits**

1

STAT Analysis Corporation

Date: 15-Dec-04

CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron
Test No: SW8270C **Matrix:** S

QC SUMMARY REPORT
SURROGATE RECOVERIES

Sample ID	CLPH2D4	DCBZ12D4	NO2BZD5	PH246BR	PH2F	PHD5	PHEN2F	PHEND14
MB-12127-SVOC	79.9	71.7	89.6	108	84.3	91.6	74.4	87.1
LCS-12127-SVOC	74.5	66.8	87.4	86.2	77.6	88.4	73.5	88.9
0412059-001B	72.7	67.0	86.7	99.0	67.4	83.0	89.8	75.4
0412059-005B	80.6	88.4	95.7	111	72.5	91.4	174 *	98.0
0412059-009B	84.1	78.8	81.9	157 *	72.3	90.9	56.1	195 *
0412059-007B	66.5	58.9	78.7	127 *	59.1	77.8	76.7	95.3
0412059-007BMS	66.9	61.3	81.9	129 *	59.8	77.0	80.7	95.7
0412059-007BMSD	67.1	62.4	80.1	109	62.0	74.6	76.6	86.3
0412059-008B	89.0	83.0	102	88.5	84.5	99.7	91.9	76.8
0412059-008BMS	72.0	68.7	87.5	82.6	69.9	81.7	78.4	75.3
0412059-008BMSD	90.8	87.7	110	105	91.0	102	93.2	85.7
0412059-002B	92.5	86.5	110	94.9	91.7	107	96.2	96.9
0412059-010B	71.4	64.7	83.3	82.3	70.8	85.4	70.7	95.7
0412059-004B	82.3	76.2	100	64.1	82.3	99.5	81.8	99.5
0412059-003B	71.9	64.6	85.1	74.3	73.6	84.8	70.4	78.5
0412059-006B	79.3	71.2	93.5	73.8	80.5	93.7	74.4	81.4

Acronym		Surrogate	QC Limits
CLPH2D4	=	2-Chlorophenol-d4	20-130
DCBZ12D4	=	1,2-Dichlorobenzene-d4	20-130
NO2BZD5	=	Nitrobenzene-d5	23-120
PH246BR	=	2,4,6-Tribromophenol	19-122
PH2F	=	2-Fluorophenol	25-121
PHD5	=	Phenol-d5	24-113
PHEN2F	=	2-Fluorobiphenyl	30-115
PHEND14	=	4-Terphenyl-d14	18-137

*** Surrogate recovery outside acceptance limits**

1

Prep Start Date: **12/7/2004 12:30:55**
Prep End Date:

Prep Batch **12127** Prep Code: **3550_SVOC** Technician: **JT**

Prep Factor Units: **mL / Kg**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
0412059-001B	Soil		0.03032	0	0	1	32.982	12/7/2004	12/7/2004
0412059-002B	Soil		0.030035	0	0	1	33.294	12/7/2004	12/7/2004
0412059-003B	Soil		0.030067	0	0	1	33.259	12/7/2004	12/7/2004
0412059-004B	Soil		0.03038	0	0	1	32.916	12/7/2004	12/7/2004
0412059-005B	Soil		0.03026	0	0	1	33.047	12/7/2004	12/7/2004
0412059-006B	Soil		0.03025	0	0	1	33.058	12/7/2004	12/7/2004
0412059-007B	Soil		0.03031	0	0	1	32.992	12/7/2004	12/7/2004
0412059-007BMS	Soil		0.03029	0	0	1	33.014	12/7/2004	12/7/2004
0412059-007BMSD	Soil		0.03028	0	0	1	33.025	12/7/2004	12/7/2004
0412059-008B	Soil		0.03033	0	0	1	32.971	12/7/2004	12/7/2004
0412059-008BMS	Soil		0.03039	0	0	1	32.906	12/7/2004	12/7/2004
0412059-008BMSD	Soil		0.03075	0	0	1	32.520	12/7/2004	12/7/2004
0412059-009B	Soil		0.03081	0	0	1	32.457	12/7/2004	12/7/2004
0412059-010B	Soil		0.03081	0	0	1	32.457	12/7/2004	12/7/2004
0412085-001B	Soil		0.0307	0	0	1	32.573	12/7/2004	12/8/2004
0412085-002B	Soil		0.03072	0	0	1	32.552	12/7/2004	12/8/2004
0412085-003B	Soil		0.03044	0	0	1	32.852	12/7/2004	12/8/2004
0412085-005B	Soil		0.03018	0	0	1	33.135	12/7/2004	12/8/2004
0412085-006B	Soil		0.03036	0	0	1	32.938	12/7/2004	12/8/2004
0412099-001B	Soil		0.03058	0	0	1	32.701	12/7/2004	12/8/2004
0412099-002B	Soil		0.03032	0	0	1	32.982	12/7/2004	12/8/2004
0412099-003B	Soil		0.03073	0	0	1	32.541	12/7/2004	12/8/2004
0412130-003A	Soil		0.0307	0	0	1	32.573	12/7/2004	12/8/2004
LCS-12127-SVOC			0.03	0	0	1	33.333	12/7/2004	12/7/2004
MB-12127-SVOC			0.03	0	0	1	33.333	12/7/2004	12/7/2004

STAT Analysis Corporation

Date: 15-Dec-04

CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron
Test No: SW8270C-SIM **Matrix:** S

QC SUMMARY REPORT
SURROGATE RECOVERIES

Sample ID	DCBZ12D4	NO2BZD5	PHEN2F	PHEND14				
0412059-008B	63.6	80.7	59.4	59.8				
0412059-002B	67.6	85.5	59.3	60.0				
0412059-003B	47.5	62.5	47.0	51.7				
0412059-004B	49.8	62.5	47.0	52.6				
0412059-001B	54.1	71.9	61.3	59.0				
0412059-005B	50.5	66.8	121 *	72.8				
0412059-009B	51.3	45.8	17.2 *	129				
0412059-005B:10	67.4	87.0	81.2	83.2				
0412059-009B:10	73.0	121 *	64.0	98.6				
0412059-007B	45.0	60.0	46.5	65.1				
0412059-007BMS	72.3	96.4	81.2	126				
0412059-007BMSD	62.7	83.8	73.1	133				
MB-12126-PNA	82.2	92.6	78.2	88.2				
LCS-12126-PNA	75.6	85.4	73.1	83.6				
0412059-006B	57.6	73.0	51.4	55.5				
0412059-008BMS	65.9	83.2	74.1	85.4				
0412059-008BMSD	68.3	88.8	73.3	87.2				
0412059-010B	51.1	62.8	43.9	53.5				
MB-12147-PNA	83.0	91.2	76.2	82.2				
LCS-12147-PNA	68.5	75.4	64.3	72.7				
0411538-005BMS	88.4	93.6	82.4	98.2				
0411538-005BMSD	92.0	100	88.0	102				

Acronym		Surrogate	QC Limits
DCBZ12D4	=	1,2-Dichlorobenzene-d4	20-130
NO2BZD5	=	Nitrobenzene-d5	23-120
PHEN2F	=	2-Fluorobiphenyl	30-115
PHEND14	=	4-Terphenyl-d14	18-137

*** Surrogate recovery outside acceptance limits**

1

Prep Start Date: **12/7/2004 12:27:03**
Prep End Date: **12/8/2004 9:59:21 P**

Prep Batch **12126** Prep Code: **3550_PNA** Technician: **JT**

Prep Factor Units: **mL / Kg**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
0412058-001B	Soil		0.03068	0	0	1	32.595	12/7/2004	12/7/2004
0412058-002B	Soil		0.03087	0	0	1	32.394	12/7/2004	12/7/2004
0412058-003B	Soil		0.03064	0	0	1	32.637	12/7/2004	12/7/2004
0412059-001B	Soil		0.03032	0	0	1	32.982	12/7/2004	12/7/2004
0412059-002B	Soil		0.03035	0	0	1	32.949	12/7/2004	12/7/2004
0412059-003B	Soil		0.03067	0	0	1	32.605	12/7/2004	12/7/2004
0412059-004B	Soil		0.03038	0	0	1	32.916	12/7/2004	12/7/2004
0412059-005B	Soil		0.03026	0	0	1	33.047	12/7/2004	12/7/2004
0412059-006B	Soil		0.03025	0	0	1	33.058	12/7/2004	12/7/2004
0412059-007B	Soil		0.03031	0	0	1	32.992	12/7/2004	12/7/2004
0412059-007BMS	Soil		0.03031	0	0	1	32.992	12/7/2004	12/7/2004
0412059-007BMSD	Soil		0.03047	0	0	1	32.819	12/7/2004	12/7/2004
0412059-008B	Soil		0.03033	0	0	1	32.971	12/7/2004	12/7/2004
0412059-008BMS	Soil		0.03039	0	0	1	32.906	12/7/2004	12/7/2004
0412059-008BMSD	Soil		0.0305	0	0	1	32.787	12/7/2004	12/7/2004
0412059-009B	Soil		0.03081	0	0	1	32.457	12/7/2004	12/7/2004
0412059-010B	Soil		0.03081	0	0	1	32.457	12/7/2004	12/7/2004
0412085-001B	Soil		0.0307	0	0	1	32.573	12/7/2004	12/8/2004
0412085-002B	Soil		0.03072	0	0	1	32.552	12/7/2004	12/8/2004
0412085-003B	Soil		0.03044	0	0	1	32.852	12/7/2004	12/8/2004
0412085-005B	Soil		0.03018	0	0	1	33.135	12/7/2004	12/8/2004
0412085-006B	Soil		0.03036	0	0	1	32.938	12/7/2004	12/8/2004
0412086-001A	Soil		0.03052	0	0	1	32.765	12/7/2004	12/8/2004
0412130-003A	Soil		0.0307	0	0	1	32.573	12/7/2004	12/8/2004
LCS-12126-PNA			0.03	0	0	1	33.333	12/7/2004	12/7/2004

Prep Start Date: **12/7/2004 12:27:03**
Prep End Date: **12/8/2004 9:59:21 P**

Prep Batch **12126** Prep Code: **3550_PNA** Technician: **JT**

Prep Factor Units: **mL / Kg**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-12126-PNA			0.03	0	0	1	33.333	12/7/2004	12/7/2004

Prep Start Date: **12/8/2004 4:18:58 P**
Prep End Date: **12/9/2004 10:37:20**

Prep Batch **12147** Prep Code: **3550_PNA** Technician: **JT**

Prep Factor Units: **mL / Kg**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
0411538-005B	Soil		0.02021	0	0	1	49.480	12/8/2004	12/9/2004
0411538-005BMS	Soil		0.01528	0	0	1	65.445	12/8/2004	12/9/2004
0411538-005BMSD	Soil		0.01141	0	0	1	87.642	12/8/2004	12/9/2004
0412059-008B	Soil		0.03003	0	0	1	33.300	12/8/2004	12/8/2004
0412059-008BMS	Soil		0.03061	0	0	1	32.669	12/8/2004	12/8/2004
0412059-008BMSD	Soil		0.03035	0	0	1	32.949	12/8/2004	12/8/2004
0412087-001B	Soil		0.03031	0	0	1	32.992	12/8/2004	12/8/2004
0412087-002B	Soil		0.03053	0	0	1	32.755	12/8/2004	12/8/2004
0412087-003B	Soil		0.03056	0	0	1	32.723	12/8/2004	12/8/2004
0412087-004B	Soil		0.03034	0	0	1	32.960	12/8/2004	12/8/2004
0412090-001B	Soil		0.03051	0	0	1	32.776	12/8/2004	12/8/2004
0412091-001B	Soil		0.01006	0	0	0.5	49.702	12/8/2004	12/8/2004
0412091-002B	Soil		0.03062	0	0	1	32.658	12/8/2004	12/8/2004
0412091-003B	Soil		0.03018	0	0	1	33.135	12/8/2004	12/8/2004
0412091-004B	Soil		0.03026	0	0	1	33.047	12/8/2004	12/8/2004
0412091-005B	Soil		0.0304	0	0	1	32.895	12/8/2004	12/8/2004
0412091-006B	Soil		0.03042	0	0	1	32.873	12/8/2004	12/8/2004
0412099-001B	Soil		0.03032	0	0	1	32.982	12/8/2004	12/8/2004
0412099-002B	Soil		0.03073	0	0	1	32.541	12/8/2004	12/8/2004
0412099-003B	Soil		0.0302	0	0	1	33.113	12/8/2004	12/8/2004
LCS-12147-PNA			0.03	0	0	1	33.333	12/8/2004	12/8/2004
MB-12147-PNA			0.03	0	0	1	33.333	12/8/2004	12/8/2004

Prep Start Date: **12/7/2004 8:14:46 P**
Prep End Date:

Prep Batch **12138** Prep Code: **3580_TPH** Technician: **CDC**

Prep Factor Units: **mL / Kg**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
0412059-001B	Soil		0.00525	0	0	5	952.381	12/7/2004	12/8/2004
0412059-002B	Soil		0.00504	0	0	5	992.063	12/7/2004	12/8/2004
0412059-003B	Soil		0.00517	0	0	5	967.118	12/7/2004	12/8/2004
0412059-004B	Soil		0.00557	0	0	5	897.666	12/7/2004	12/8/2004
0412059-005B	Soil		0.00525	0	0	5	952.381	12/7/2004	12/8/2004
0412059-006B	Soil		0.00546	0	0	5	915.751	12/7/2004	12/8/2004
0412059-007B	Soil		0.00532	0	0	5	939.850	12/7/2004	12/8/2004
0412059-007BMS	Soil		0.00523	0	0	5	956.023	12/7/2004	12/8/2004
0412059-007BMSD	Soil		0.00509	0	0	5	982.318	12/7/2004	12/8/2004
0412059-008B	Soil		0.00536	0	0	5	932.836	12/7/2004	12/8/2004
0412059-008BMS	Soil		0.00506	0	0	5	988.142	12/7/2004	12/8/2004
0412059-008BMSD	Soil		0.00509	0	0	5	982.318	12/7/2004	12/8/2004
0412059-009B	Soil		0.00513	0	0	5	974.659	12/7/2004	12/8/2004
0412059-010B	Soil		0.00591	0	0	5	846.024	12/7/2004	12/8/2004
0412085-001B	Soil		0.00559	0	0	5	894.454	12/7/2004	12/8/2004
0412085-002B	Soil		0.00529	0	0	5	945.180	12/7/2004	12/8/2004
0412085-003B	Soil		0.00552	0	0	5	905.797	12/7/2004	12/8/2004
0412085-005B	Soil		0.00521	0	0	5	959.693	12/7/2004	12/8/2004
0412085-006B	Soil		0.00524	0	0	5	954.198	12/7/2004	12/8/2004
LCS-12138-TPH			0.005	0	0	5	1000.000	12/7/2004	12/8/2004
MB-12138-TPH			0.005	0	0	5	1000.000	12/7/2004	12/8/2004

CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12138

Sample ID	MB-12138-TPH	SampType:	MBLK	TestCode:	TPH	Units:	mg/Kg	Prep Date:	12/7/2004	Run ID:	GC-FID_041208A
Client ID:	ZZZZZ	Batch ID:	12138	TestNo:	SW8015M			Analysis Date:	12/8/2004	SeqNo:	320353

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	ND	20									*
TPH (Diesel)	ND	20									*
TPH (Oil)	ND	20									*

Sample ID	LCS-12138-TPH	SampType:	LCS	TestCode:	TPH	Units:	mg/Kg	Prep Date:	12/7/2004	Run ID:	GC-FID_041208A
Client ID:	ZZZZZ	Batch ID:	12138	TestNo:	SW8015M			Analysis Date:	12/8/2004	SeqNo:	320354

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	139.4	20	200	0	69.7	30	150	0	0		*
TPH (Diesel)	217.4	20	200	0	109	30	150	0	0		*
TPH (Oil)	299.9	20	200	0	150	30	150	0	0		*

Sample ID	0412059-007BMS	SampType:	MS	TestCode:	TPH	Units:	mg/Kg-dry	Prep Date:	12/7/2004	Run ID:	GC-FID_041208A
Client ID:	WSS-SB58-001	Batch ID:	12138	TestNo:	SW8015M			Analysis Date:	12/9/2004	SeqNo:	320362

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	228.7	32	317.2	0	72.1	30	150	0	0		*
TPH (Diesel)	874	32	317.2	302	180	30	150	0	0		S*
TPH (Oil)	2083	32	317.2	1099	310	30	150	0	0		S*

Sample ID	0412059-008BMS	SampType:	MS	TestCode:	TPH	Units:	mg/Kg-dry	Prep Date:	12/7/2004	Run ID:	GC-FID_041208A
Client ID:	WSS-SB58-002	Batch ID:	12138	TestNo:	SW8015M			Analysis Date:	12/9/2004	SeqNo:	320365

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	174	25	247.8	0	70.2	30	150	0	0		*
TPH (Diesel)	296.8	25	247.8	5.454	118	30	150	0	0		*
TPH (Oil)	396.2	25	247.8	24.72	150	30	150	0	0		*

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

Sample ID **0412059-007BMSD** SampType: **MSD** TestCode: **TPH** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **GC-FID_041208A**
Client ID: **WSS-SB58-001** Batch ID: **12138** TestNo: **SW8015M** Analysis Date: **12/9/2004** SeqNo: **320363**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	293.2	33	326	0	89.9	30	150	228.7	24.7	25	*
TPH (Diesel)	1474	33	326	302	360	30	150	874	51.1	25	SR*
TPH (Oil)	3292	33	326	1099	673	30	150	2083	45.0	25	SR*

Sample ID **0412059-008BMSD** SampType: **MSD** TestCode: **TPH** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **GC-FID_041208A**
Client ID: **WSS-SB58-002** Batch ID: **12138** TestNo: **SW8015M** Analysis Date: **12/9/2004** SeqNo: **320366**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	182.8	25	246.4	0	74.2	30	150	174	4.95	25	*
TPH (Diesel)	330.7	25	246.4	5.454	132	30	150	296.8	10.8	25	*
TPH (Oil)	434	25	246.4	24.72	166	30	150	396.2	9.11	25	S*

CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12126

Sample ID	**MB-12126-PNA**	SampType:	**MBLK**	TestCode:	**PNA_SOIL**	Units:	**mg/Kg**	Prep Date:	**12/7/2004**	Run ID:	**SVOC-4_041207A**
Client ID:	**ZZZZZ**	Batch ID:	**12126**	TestNo:	**SW8270C-SI**			Analysis Date:	**12/7/2004**	SeqNo:	**319326**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.025	0	0	0	0	0	0	0		
Acenaphthylene	ND	0.025	0	0	0	0	0	0	0		
Anthracene	ND	0.025	0	0	0	0	0	0	0		
Benz(a)anthracene	ND	0.025	0	0	0	0	0	0	0		
Benzo(a)pyrene	ND	0.025	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	ND	0.025	0	0	0	0	0	0	0		
Benzo(g,h,i)perylene	ND	0.025	0	0	0	0	0	0	0		
Benzo(k)fluoranthene	ND	0.025	0	0	0	0	0	0	0		
Chrysene	ND	0.025	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	ND	0.025	0	0	0	0	0	0	0		
Fluoranthene	ND	0.025	0	0	0	0	0	0	0		
Fluorene	ND	0.025	0	0	0	0	0	0	0		
Indeno(1,2,3-cd)pyrene	ND	0.025	0	0	0	0	0	0	0		
Naphthalene	ND	0.025	0	0	0	0	0	0	0		
Phenanthrene	ND	0.025	0	0	0	0	0	0	0		
Pyrene	ND	0.025	0	0	0	0	0	0	0		

Sample ID	**LCS-12126-PNA**	SampType:	**LCS**	TestCode:	**PNA_SOIL**	Units:	**mg/Kg**	Prep Date:	**12/7/2004**	Run ID:	**SVOC-4_041207A**
Client ID:	**ZZZZZ**	Batch ID:	**12126**	TestNo:	**SW8270C-SI**			Analysis Date:	**12/7/2004**	SeqNo:	**319327**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.1207	0.025	0.167	0	72.3	30	130	0	0		
Acenaphthylene	0.1253	0.025	0.167	0	75	30	130	0	0		
Anthracene	0.1293	0.025	0.167	0	77.4	30	130	0	0		
Benz(a)anthracene	0.1287	0.025	0.167	0	77	30	130	0	0		
Benzo(a)pyrene	0.1397	0.025	0.167	0	83.6	30	130	0	0		
Benzo(b)fluoranthene	0.1317	0.025	0.167	0	78.8	30	130	0	0		
Benzo(g,h,i)perylene	0.1323	0.025	0.167	0	79.2	30	130	0	0		
Benzo(k)fluoranthene	0.1477	0.025	0.167	0	88.4	30	130	0	0		
Chrysene	0.1437	0.025	0.167	0	86	30	130	0	0		
Dibenz(a,h)anthracene	0.1373	0.025	0.167	0	82.2	30	130	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

Sample ID	LCS-12126-PNA	SampType:	LCS	TestCode:	PNA_SOIL	Units:	mg/Kg	Prep Date:	12/7/2004	Run ID:	SVOC-4_041207A
Client ID:	ZZZZZ	Batch ID:	12126	TestNo:	SW8270C-SI			Analysis Date:	12/7/2004	SeqNo:	319327

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	0.1313	0.025	0.167	0	78.6	30	130	0	0		
Fluorene	0.125	0.025	0.167	0	74.9	30	130	0	0		
Indeno(1,2,3-cd)pyrene	0.1353	0.025	0.167	0	81	30	130	0	0		
Naphthalene	0.1113	0.025	0.167	0	66.7	30	130	0	0		
Phenanthrene	0.1157	0.025	0.167	0	69.3	30	130	0	0		
Pyrene	0.1253	0.025	0.167	0	75	30	130	0	0		

Sample ID	0412059-008BMS	SampType:	MS	TestCode:	PNA_SOIL-B	Units:	mg/Kg-dry	Prep Date:	12/7/2004	Run ID:	SVOC-4_041207A
Client ID:	WSS-SB58-002	Batch ID:	12126	TestNo:	SW8270C-SI			Analysis Date:	12/7/2004	SeqNo:	319331

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.2455	0.031	0.2067	0.07153	84.2	30	130	0	0		
Acenaphthylene	0.1882	0.031	0.2067	0.01364	84.4	30	130	0	0		
Anthracene	0.2897	0.031	0.2067	0.07856	102	30	130	0	0		
Benz(a)anthracene	0.2592	0.031	0.2067	0.06492	93.9	30	130	0	0		
Benzo(b)fluoranthene	0.2327	0.031	0.2067	0.03845	94	30	130	0	0		
Benzo(k)fluoranthene	0.2389	0.031	0.2067	0.03845	97	30	130	0	0		
Benzo(g,h,i)perylene	0.1762	0.031	0.2067	0.02522	73	30	130	0	0		
Benzo(a)pyrene	0.2794	0.031	0.2067	0.05871	107	30	130	0	0		
Chrysene	0.2827	0.031	0.2067	0.06119	107	30	130	0	0		
Dibenz(a,h)anthracene	0.17	0.031	0.2067	0.007856	78.4	30	130	0	0		
Fluoranthene	0.3697	0.031	0.2067	0.1398	111	30	130	0	0		
Fluorene	0.2592	0.031	0.2067	0.08807	82.8	30	130	0	0		
Indeno(1,2,3-cd)pyrene	0.1816	0.031	0.2067	0.02398	76.2	30	130	0	0		
Naphthalene	0.6978	0.031	0.2067	0.3887	150	30	130	0	0		SE
Phenanthrene	0.482	0.031	0.2067	0.2365	119	30	130	0	0		E
Pyrene	0.3396	0.031	0.2067	0.1149	109	30	130	0	0		

CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12126

Sample ID **0412059-007BMS** SampType: **MS** TestCode: **PNA_SOIL-B** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **SVOC-3_041208A**
Client ID: **WSS-SB58-001** Batch ID: **12126** TestNo: **SW8270C-SI** Analysis Date: **12/8/2004** SeqNo: **320057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	2.862	0.041	0.2743	2.502	131	30	130	0	0		SE
Acenaphthylene	0.5206	0.041	0.2743	0.393	46.5	30	130	0	0		
Anthracene	5.312	0.041	0.2743	5.325	-4.59	30	130	0	0		SE
Benz(a)anthracene	8.799	0.041	0.2743	8.593	75	30	130	0	0		E
Benzo(b)fluoranthene	4.45	0.041	0.2743	3.313	415	30	130	0	0		SE
Benzo(k)fluoranthene	2.697	0.041	0.2743	2.576	44.1	30	130	0	0		E
Benzo(g,h,i)perylene	1.367	0.041	0.2743	1.041	119	30	130	0	0		E
Benzo(a)pyrene	3.46	0.041	0.2743	3.327	48.7	30	130	0	0		E
Chrysene	5.214	0.041	0.2743	4.281	340	30	130	0	0		SE
Dibenz(a,h)anthracene	0.6865	0.041	0.2743	0.4489	86.6	30	130	0	0		E
Fluoranthene	13.3	0.041	0.2743	12.25	380	30	130	0	0		SE
Fluorene	3.89	0.041	0.2743	3.638	91.8	30	130	0	0		E
Indeno(1,2,3-cd)pyrene	1.625	0.041	0.2743	1.202	154	30	130	0	0		SE
Naphthalene	2.912	0.041	0.2743	2.65	95.4	30	130	0	0		E
Phenanthrene	14.08	0.041	0.2743	13.5	209	30	130	0	0		SE
Pyrene	11.29	0.041	0.2743	10.63	241	30	130	0	0		SE

Sample ID **0412059-008BMSD** SampType: **MSD** TestCode: **PNA_SOIL-B** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **SVOC-4_041207A**
Client ID: **WSS-SB58-002** Batch ID: **12126** TestNo: **SW8270C-SI** Analysis Date: **12/7/2004** SeqNo: **319332**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.2072	0.031	0.206	0.07153	65.9	30	130	0.2455	16.9	50	
Acenaphthylene	0.1698	0.031	0.206	0.01364	75.8	30	130	0.1882	10.3	50	
Anthracene	0.259	0.031	0.206	0.07856	87.6	30	130	0.2897	11.2	50	
Benz(a)anthracene	0.2241	0.031	0.206	0.06492	77.3	30	130	0.2592	14.5	50	
Benzo(b)fluoranthene	0.2105	0.031	0.206	0.03845	83.5	30	130	0.2327	10.0	50	
Benzo(k)fluoranthene	0.2311	0.031	0.206	0.03845	93.5	30	130	0.2389	3.34	50	
Benzo(g,h,i)perylene	0.1657	0.031	0.206	0.02522	68.2	30	130	0.1762	6.14	50	
Benzo(a)pyrene	0.243	0.031	0.206	0.05871	89.5	30	130	0.2794	13.9	50	
Chrysene	0.2426	0.031	0.206	0.06119	88.1	30	130	0.2827	15.3	50	
Dibenz(a,h)anthracene	0.1678	0.031	0.206	0.007856	77.6	30	130	0.17	1.34	50	

Qualifiers:
ND - Not Detected at the Reporting Limit
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* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12126

Sample ID **0412059-008BMSD** SampType: **MSD** TestCode: **PNA_SOIL-B** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **SVOC-4_041207A**
Client ID: **WSS-SB58-002** Batch ID: **12126** TestNo: **SW8270C-SI** Analysis Date: **12/7/2004** SeqNo: **319332**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	0.3018	0.031	0.206	0.1398	78.7	30	130	0.3697	20.2	50	
Fluorene	0.2212	0.031	0.206	0.08807	64.6	30	130	0.2592	15.8	50	
Indeno(1,2,3-cd)pyrene	0.1743	0.031	0.206	0.02398	73	30	130	0.1816	4.06	50	
Naphthalene	0.4835	0.031	0.206	0.3887	46.1	30	130	0.6978	36.3	50	E
Phenanthrene	0.3713	0.031	0.206	0.2365	65.4	30	130	0.482	25.9	50	
Pyrene	0.273	0.031	0.206	0.1149	76.7	30	130	0.3396	21.7	50	

Sample ID **0412059-007BMSD** SampType: **MSD** TestCode: **PNA_SOIL-B** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **SVOC-3_041208A**
Client ID: **WSS-SB58-001** Batch ID: **12126** TestNo: **SW8270C-SI** Analysis Date: **12/8/2004** SeqNo: **320058**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	3.377	0.041	0.2728	2.502	321	30	130	2.862	16.5	50	SE
Acenaphthylene	0.544	0.041	0.2728	0.393	55.3	30	130	0.5206	4.40	50	
Anthracene	6.604	0.041	0.2728	5.325	469	30	130	5.312	21.7	50	SE
Benz(a)anthracene	9.881	0.041	0.2728	8.593	472	30	130	8.799	11.6	50	SE
Benzo(b)fluoranthene	4.214	0.041	0.2728	3.313	330	30	130	4.45	5.44	50	SE
Benzo(k)fluoranthene	2.979	0.041	0.2728	2.576	148	30	130	2.697	9.92	50	SE
Benzo(g,h,i)perylene	1.191	0.041	0.2728	1.041	55.3	30	130	1.367	13.7	50	E
Benzo(a)pyrene	3.456	0.041	0.2728	3.327	47.3	30	130	3.46	0.132	50	E
Chrysene	5.293	0.041	0.2728	4.281	371	30	130	5.214	1.51	50	SE
Dibenz(a,h)anthracene	0.7264	0.041	0.2728	0.4489	102	30	130	0.6865	5.66	50	E
Fluoranthene	17.93	0.041	0.2728	12.25	2080	30	130	13.3	29.7	50	SE
Fluorene	4.786	0.041	0.2728	3.638	421	30	130	3.89	20.7	50	SE
Indeno(1,2,3-cd)pyrene	1.391	0.041	0.2728	1.202	69.3	30	130	1.625	15.6	50	E
Naphthalene	3.092	0.041	0.2728	2.65	162	30	130	2.912	6.02	50	SE
Phenanthrene	20.47	0.041	0.2728	13.5	2550	30	130	14.08	37.0	50	SE
Pyrene	14.97	0.041	0.2728	10.63	1590	30	130	11.29	28.0	50	SE

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CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12127

Sample ID	**MB-12127-SVOC**	SampType:	**MBLK**	TestCode:	**SVOC_SOIL**	Units:	**mg/Kg**	Prep Date:	**12/7/2004**	Run ID:	**SVOC-2_041207B**
Client ID:	**ZZZZZ**	Batch ID:	**12127**	TestNo:	**SW8270C**			Analysis Date:	**12/7/2004**	SeqNo:	**319355**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	0.17									
1,2-Dichlorobenzene	ND	0.17									
1,3-Dichlorobenzene	ND	0.17									
1,4-Dichlorobenzene	ND	0.17									
2, 2'-oxybis(1-Chloropropane)	ND	0.17									
2,4,5-Trichlorophenol	ND	0.33									
2,4,6-Trichlorophenol	ND	0.17									
2,4-Dichlorophenol	ND	0.17									
2,4-Dimethylphenol	ND	0.17									
2,4-Dinitrophenol	ND	0.80									
2,4-Dinitrotoluene	ND	0.17									
2,6-Dinitrotoluene	ND	0.17									
2-Chloronaphthalene	ND	0.17									
2-Chlorophenol	ND	0.17									
2-Methylnaphthalene	ND	0.17									
2-Methylphenol	ND	0.17									
2-Nitroaniline	ND	0.80									
2-Nitrophenol	ND	0.17									
3,3´-Dichlorobenzidine	ND	0.33									
3-Nitroaniline	ND	0.80									
4,6-Dinitro-2-methylphenol	ND	0.80									
4-Bromophenyl phenyl ether	ND	0.17									
4-Chloro-3-methylphenol	ND	0.17									
4-Chloroaniline	ND	0.17									
4-Chlorophenyl phenyl ether	ND	0.17									
4-Methylphenol	ND	0.17									
4-Nitroaniline	ND	0.80									
4-Nitrophenol	ND	0.80									
Acenaphthene	ND	0.17									
Acenaphthylene	ND	0.17									
Aniline	ND	0.17									

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CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12127

Sample ID	**MB-12127-SVOC**	SampType:	**MBLK**	TestCode:	**SVOC_SOIL**	Units:	**mg/Kg**	Prep Date:	**12/7/2004**	Run ID:	**SVOC-2_041207B**
Client ID:	**ZZZZZ**	Batch ID:	**12127**	TestNo:	**SW8270C**			Analysis Date:	**12/7/2004**	SeqNo:	**319355**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	ND	0.17									
Benz(a)anthracene	ND	0.17									
Benzidine	ND	0.17									
Benzo(a)pyrene	ND	0.17									
Benzo(b)fluoranthene	ND	0.17									
Benzo(g,h,i)perylene	ND	0.17									
Benzo(k)fluoranthene	ND	0.17									
Benzoic acid	ND	0.80									
Benzyl alcohol	ND	0.17									
Bis(2-chloroethoxy)methane	ND	0.17									
Bis(2-chloroethyl)ether	ND	0.17									
Bis(2-ethylhexyl)phthalate	ND	0.17									
Butyl benzyl phthalate	ND	0.17									
Carbazole	ND	0.17									
Chrysene	ND	0.17									
Di-n-butyl phthalate	ND	0.17									
Di-n-octyl phthalate	ND	0.17									
Dibenz(a,h)anthracene	ND	0.17									
Dibenzofuran	ND	0.17									
Diethyl phthalate	ND	0.17									
Dimethyl phthalate	ND	0.17									
Fluoranthene	ND	0.17									
Fluorene	ND	0.17									
Hexachlorobenzene	ND	0.17									
Hexachlorobutadiene	ND	0.17									
Hexachlorocyclopentadiene	ND	0.17									
Hexachloroethane	ND	0.17									
Indeno(1,2,3-cd)pyrene	ND	0.17									
Isophorone	ND	0.17									
N-Nitrosodi-n-propylamine	ND	0.17									
N-Nitrosodimethylamine	ND	0.17									

Qualifiers:
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

Sample ID	**MB-12127-SVOC**	SampType:	**MBLK**	TestCode:	**SVOC_SOIL**	Units:	**mg/Kg**	Prep Date:	**12/7/2004**	Run ID:	**SVOC-2_041207B**
Client ID:	**ZZZZZ**	Batch ID:	**12127**	TestNo:	**SW8270C**			Analysis Date:	**12/7/2004**	SeqNo:	**319355**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
N-Nitrosodiphenylamine	ND	0.17									
Naphthalene	ND	0.17									
Nitrobenzene	ND	0.17									
Pentachlorophenol	ND	0.80									
Phenanthrene	ND	0.17									
Phenol	ND	0.17									
Pyrene	ND	0.17									
Pyridine	ND	0.17									

Sample ID	**LCS-12127-SVOC**	SampType:	**LCS**	TestCode:	**SVOC_SOIL**	Units:	**mg/Kg**	Prep Date:	**12/7/2004**	Run ID:	**SVOC-2_041207B**
Client ID:	**ZZZZZ**	Batch ID:	**12127**	TestNo:	**SW8270C**			Analysis Date:	**12/7/2004**	SeqNo:	**319356**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.25	0.17	1.667	0	75	55	106	0	0		
1,4-Dichlorobenzene	1.156	0.17	1.667	0	69.3	55	90	0	0		
2,4-Dinitrotoluene	1.513	0.17	1.667	0	90.8	55	101	0	0		
2-Chlorophenol	2.499	0.17	3.333	0	75	61	91	0	0		
4-Chloro-3-methylphenol	3.143	0.17	3.333	0	94.3	62	100	0	0		
4-Nitrophenol	3.398	0.80	3.333	0	102	53	123	0	0		
Acenaphthene	1.318	0.17	1.667	0	79.1	65	101	0	0		
N-Nitrosodi-n-propylamine	1.741	0.17	1.667	0	104	55	100	0	0		S
Pentachlorophenol	3.213	0.80	3.333	0	96.4	40	120	0	0		
Phenol	3.045	0.17	3.333	0	91.4	60	91	0	0		S
Pyrene	1.518	0.17	1.667	0	91.1	50	131	0	0		

Sample ID	**0412059-007BMS**	SampType:	**MS**	TestCode:	**SVOC_SOIL-**	Units:	**mg/Kg-dry**	Prep Date:	**12/7/2004**	Run ID:	**SVOC-2_041207B**
Client ID:	**WSS-SB58-001**	Batch ID:	**12127**	TestNo:	**SW8270C**			Analysis Date:	**12/8/2004**	SeqNo:	**319418**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	6.017	0.54	5.477	0	110	62	100	0	0		S
2-Chlorophenol	3.486	0.54	5.477	0	63.6	61	91	0	0		

Sample ID **0412059-007BMS** SampType: **MS** TestCode: **SVOC_SOIL-** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **SVOC-2_041207B**
Client ID: **WSS-SB58-001** Batch ID: **12127** TestNo: **SW8270C** Analysis Date: **12/8/2004** SeqNo: **319418**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	1.558	0.54	2.739	0	56.9	55	90	0	0		
2,4-Dinitrotoluene	2.545	0.28	2.739	0	92.9	55	101	0	0		
4-Nitrophenol	3.842	2.6	5.477	0	70.1	53	123	0	0		
N-Nitrosodi-n-propylamine	2.295	0.28	2.739	0	83.8	55	100	0	0		
Pentachlorophenol	2.754	2.6	5.477	0	50.3	40	120	0	0		
Phenol	4.336	0.54	5.477	0	79.2	60	91	0	0		
1,2,4-Trichlorobenzene	2.062	0.54	2.739	0	75.3	55	106	0	0		

Sample ID **0412059-008BMS** SampType: **MS** TestCode: **SVOC_SOIL-** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **SVOC-2_041207B**
Client ID: **WSS-SB58-002** Batch ID: **12127** TestNo: **SW8270C** Analysis Date: **12/8/2004** SeqNo: **319426**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	3.858	0.41	4.126	0	93.5	62	100	0	0		
2-Chlorophenol	3.017	0.41	4.126	0	73.1	61	91	0	0		
1,4-Dichlorobenzene	1.417	0.41	2.064	0	68.6	55	90	0	0		
2,4-Dinitrotoluene	1.416	0.21	2.064	0	68.6	55	101	0	0		
4-Nitrophenol	2.618	2.0	4.126	0	63.5	53	123	0	0		
N-Nitrosodi-n-propylamine	2.165	0.21	2.064	0	105	55	100	0	0		S
Pentachlorophenol	0.7362	2.0	4.126	0	17.8	40	120	0	0		JS
Phenol	3.488	0.41	4.126	0	84.5	60	91	0	0		
1,2,4-Trichlorobenzene	1.746	0.41	2.064	0	84.6	55	106	0	0		

Sample ID **0412059-007BMSD** SampType: **MSD** TestCode: **SVOC_SOIL-** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **SVOC-2_041207B**
Client ID: **WSS-SB58-001** Batch ID: **12127** TestNo: **SW8270C** Analysis Date: **12/8/2004** SeqNo: **319421**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	5.496	0.54	5.479	0	100	62	100	6.017	9.05	33	
2-Chlorophenol	3.706	0.54	5.479	0	67.6	61	91	3.486	6.11	50	
1,4-Dichlorobenzene	1.673	0.54	2.74	0	61.1	55	90	1.558	7.15	27	
2,4-Dinitrotoluene	2.354	0.28	2.74	0	85.9	55	101	2.545	7.80	47	
4-Nitrophenol	3.572	2.6	5.479	0	65.2	53	123	3.842	7.27	50	

Sample ID **0412059-007BMSD** SampType: **MSD** TestCode: **SVOC_SOIL-** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **SVOC-2_041207B**
Client ID: **WSS-SB58-001** Batch ID: **12127** TestNo: **SW8270C** Analysis Date: **12/8/2004** SeqNo: **319421**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
N-Nitrosodi-n-propylamine	2.423	0.28	2.74	0	88.4	55	100	2.295	5.42	38	
Pentachlorophenol	2.15	2.6	5.479	0	39.2	40	120	2.754	0	47	JS
Phenol	4.401	0.54	5.479	0	80.3	60	91	4.336	1.49	35	
1,2,4-Trichlorobenzene	2.183	0.54	2.74	0	79.7	55	106	2.062	5.69	23	

Sample ID **0412059-008BMSD** SampType: **MSD** TestCode: **SVOC_SOIL-** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **SVOC-2_041207B**
Client ID: **WSS-SB58-002** Batch ID: **12127** TestNo: **SW8270C** Analysis Date: **12/8/2004** SeqNo: **319428**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	4.443	0.40	4.078	0	109	62	100	3.858	14.1	33	S
2-Chlorophenol	3.754	0.40	4.078	0	92.1	61	91	3.017	21.8	50	S
1,4-Dichlorobenzene	1.769	0.40	2.04	0	86.7	55	90	1.417	22.1	27	
2,4-Dinitrotoluene	1.733	0.21	2.04	0	85	55	101	1.416	20.1	47	
4-Nitrophenol	2.941	2.0	4.078	0	72.1	53	123	2.618	11.6	50	
N-Nitrosodi-n-propylamine	2.651	0.21	2.04	0	130	55	100	2.165	20.2	38	S
Pentachlorophenol	0.9311	2.0	4.078	0	22.8	40	120	0.7362	0	47	JS
Phenol	4.341	0.40	4.078	0	106	60	91	3.488	21.8	35	S
1,2,4-Trichlorobenzene	2.154	0.40	2.04	0	106	55	106	1.746	20.9	23	

CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12147

Sample ID	**MB-12147-PNA**	SampType:	**MBLK**	TestCode:	**PNA_SOIL**	Units:	**mg/Kg**	Prep Date:	**12/8/2004**	Run ID:	**SVOC-4_041208A**
Client ID:	**ZZZZZ**	Batch ID:	**12147**	TestNo:	**SW8270C-SI**			Analysis Date:	**12/8/2004**	SeqNo:	**320155**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.025									
Acenaphthylene	ND	0.025									
Anthracene	ND	0.025									
Benz(a)anthracene	ND	0.025									
Benzo(a)pyrene	ND	0.025									
Benzo(b)fluoranthene	ND	0.025									
Benzo(g,h,i)perylene	ND	0.025									
Benzo(k)fluoranthene	ND	0.025									
Chrysene	ND	0.025									
Dibenz(a,h)anthracene	ND	0.025									
Fluoranthene	ND	0.025									
Fluorene	ND	0.025									
Indeno(1,2,3-cd)pyrene	ND	0.025									
Naphthalene	ND	0.025									
Phenanthrene	ND	0.025									
Pyrene	ND	0.025									

Sample ID	**LCS-12147-PNA**	SampType:	**LCS**	TestCode:	**PNA_SOIL**	Units:	**mg/Kg**	Prep Date:	**12/8/2004**	Run ID:	**SVOC-4_041208A**
Client ID:	**ZZZZZ**	Batch ID:	**12147**	TestNo:	**SW8270C-SI**			Analysis Date:	**12/8/2004**	SeqNo:	**320156**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.1113	0.025	0.167	0	66.7	30	130	0	0		
Acenaphthylene	0.114	0.025	0.167	0	68.3	30	130	0	0		
Anthracene	0.1167	0.025	0.167	0	69.9	30	130	0	0		
Benz(a)anthracene	0.1117	0.025	0.167	0	66.9	30	130	0	0		
Benzo(a)pyrene	0.1223	0.025	0.167	0	73.3	30	130	0	0		
Benzo(b)fluoranthene	0.1173	0.025	0.167	0	70.3	30	130	0	0		
Benzo(g,h,i)perylene	0.1143	0.025	0.167	0	68.5	30	130	0	0		
Benzo(k)fluoranthene	0.1313	0.025	0.167	0	78.6	30	130	0	0		
Chrysene	0.1273	0.025	0.167	0	76.2	30	130	0	0		
Dibenz(a,h)anthracene	0.1233	0.025	0.167	0	73.9	30	130	0	0		

Qualifiers:
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R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12147

Sample ID	LCS-12147-PNA	SampType:	LCS	TestCode:	PNA_SOIL	Units:	mg/Kg	Prep Date:	12/8/2004	Run ID:	SVOC-4_041208A
Client ID:	ZZZZZ	Batch ID:	12147	TestNo:	SW8270C-SI			Analysis Date:	12/8/2004	SeqNo:	320156

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	0.1217	0.025	0.167	0	72.9	30	130	0	0		
Fluorene	0.1163	0.025	0.167	0	69.7	30	130	0	0		
Indeno(1,2,3-cd)pyrene	0.1203	0.025	0.167	0	72.1	30	130	0	0		
Naphthalene	0.1017	0.025	0.167	0	60.9	30	130	0	0		
Phenanthrene	0.108	0.025	0.167	0	64.7	30	130	0	0		
Pyrene	0.1143	0.025	0.167	0	68.5	30	130	0	0		

Sample ID	0411538-005BMS	SampType:	MS	TestCode:	PNA_SOIL	Units:	mg/Kg-dry	Prep Date:	12/8/2004	Run ID:	SVOC-4_041210B
Client ID:	ZZZZZ	Batch ID:	12147	TestNo:	SW8270C-SI			Analysis Date:	12/10/2004	SeqNo:	321435

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.4713	0.079	0.5259	0.02301	85.2	30	130	0	0		
Acenaphthylene	0.4146	0.079	0.5259	0.0119	76.6	30	130	0	0		
Anthracene	0.5427	0.079	0.5259	0.08015	88	30	130	0	0		
Benz(a)anthracene	0.5143	0.079	0.5259	0.1238	74.3	30	130	0	0		
Benzo(a)pyrene	0.5742	0.079	0.5259	0.1246	85.5	30	130	0	0		
Benzo(b)fluoranthene	0.5269	0.079	0.5259	0.08968	83.1	30	130	0	0		
Benzo(g,h,i)perylene	0.5395	0.079	0.5259	0.07222	88.9	30	130	0	0		
Benzo(k)fluoranthene	0.5574	0.079	0.5259	0.1214	82.9	30	130	0	0		
Chrysene	0.5993	0.079	0.5259	0.1492	85.6	30	130	0	0		
Dibenz(a,h)anthracene	0.5521	0.079	0.5259	0.02698	99.9	30	130	0	0		
Fluoranthene	0.6014	0.079	0.5259	0.3095	55.5	30	130	0	0		
Fluorene	0.486	0.079	0.5259	0.03174	86.4	30	130	0	0		
Indeno(1,2,3-cd)pyrene	0.549	0.079	0.5259	0.06111	92.8	30	130	0	0		
Naphthalene	0.4167	0.079	0.5259	0.01428	76.5	30	130	0	0		
Phenanthrene	0.5311	0.079	0.5259	0.2301	57.2	30	130	0	0		
Pyrene	0.5742	0.079	0.5259	0.2674	58.3	30	130	0	0		

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H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12147

Sample ID	**0411538-005BMSD**	SampType:	**MSD**	TestCode:	**PNA_SOIL**	Units:	**mg/Kg-dry**	Prep Date:	**12/8/2004**	Run ID:	**SVOC-4_041210B**
Client ID:	**ZZZZZ**	Batch ID:	**12147**	TestNo:	**SW8270C-SI**			Analysis Date:	**12/10/2004**	SeqNo:	**321436**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.6607	0.11	0.7042	0.02301	90.5	30	130	0.4713	33.5	50	
Acenaphthylene	0.596	0.11	0.7042	0.0119	82.9	30	130	0.4146	35.9	50	
Anthracene	0.7506	0.11	0.7042	0.08015	95.2	30	130	0.5427	32.2	50	
Benz(a)anthracene	0.7295	0.11	0.7042	0.1238	86	30	130	0.5143	34.6	50	
Benzo(a)pyrene	0.8111	0.11	0.7042	0.1246	97.5	30	130	0.5742	34.2	50	
Benzo(b)fluoranthene	0.7422	0.11	0.7042	0.08968	92.7	30	130	0.5269	33.9	50	
Benzo(g,h,i)perylene	0.7787	0.11	0.7042	0.07222	100	30	130	0.5395	36.3	50	
Benzo(k)fluoranthene	0.8827	0.11	0.7042	0.1214	108	30	130	0.5574	45.2	50	
Chrysene	0.835	0.11	0.7042	0.1492	97.4	30	130	0.5993	32.9	50	
Dibenz(a,h)anthracene	0.8083	0.11	0.7042	0.02698	111	30	130	0.5521	37.7	50	
Fluoranthene	0.7872	0.11	0.7042	0.3095	67.8	30	130	0.6014	26.7	50	
Fluorene	0.6902	0.11	0.7042	0.03174	93.5	30	130	0.486	34.7	50	
Indeno(1,2,3-cd)pyrene	0.7984	0.11	0.7042	0.06111	105	30	130	0.549	37.0	50	
Naphthalene	0.589	0.11	0.7042	0.01428	81.6	30	130	0.4167	34.3	50	
Phenanthrene	0.6761	0.11	0.7042	0.2301	63.3	30	130	0.5311	24.0	50	
Pyrene	0.752	0.11	0.7042	0.2674	68.8	30	130	0.5742	26.8	50	

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CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12076

Sample ID	**0412059-007AMS**	SampType:	**MS**	TestCode:	**VOC_ENCOR**	Units:	**mg/Kg-dry**	Prep Date:	**12/3/2004**	Run ID:	**VOA-2_041208A**
Client ID:	**WSS-SB58-001**	Batch ID:	**12076**	TestNo:	**SW5035/8260**			Analysis Date:	**12/8/2004**	SeqNo:	**319605**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.09293	0.010	0.1034	0	89.8	70	130	0	0		
1,1,2,2-Tetrachloroethane	0.06	0.010	0.1034	0	58	70	130	0	0		S
1,1,2-Trichloroethane	0.0812	0.010	0.1034	0	78.5	70	130	0	0		
1,1-Dichloroethane	0.0895	0.010	0.1034	0	86.5	70	130	0	0		
1,1-Dichloroethene	0.08104	0.010	0.1034	0	78.3	50	234	0	0		
1,2-Dichloroethane	0.07566	0.010	0.1034	0	73.1	70	130	0	0		
1,2-Dichloropropane	0.08242	0.010	0.1034	0	79.7	70	130	0	0		
2-Butanone	0.07562	0.021	0.1034	0	73.1	70	130	0	0		
2-Hexanone	0.08263	0.021	0.1034	0	79.9	70	130	0	0		
4-Methyl-2-pentanone	0.08269	0.021	0.1034	0	79.9	70	130	0	0		
Acetone	0.2049	0.052	0.1034	0.0299	169	70	130	0	0		S
Benzene	0.08886	0.010	0.1034	0.003606	82.4	37	151	0	0		
Bromodichloromethane	0.05501	0.010	0.1034	0	53.2	70	130	0	0		S
Bromoform	0.04115	0.010	0.1034	0	39.8	70	130	0	0		S
Bromomethane	0.05458	0.021	0.1034	0	52.8	70	130	0	0		S
Carbon disulfide	0.08503	0.010	0.1034	0.00462	77.7	70	130	0	0		
Carbon tetrachloride	0.06717	0.010	0.1034	0	64.9	70	130	0	0		S
Chlorobenzene	0.0745	0.010	0.1034	0	72	37	160	0	0		
Chloroethane	0.08799	0.021	0.1034	0	85.1	70	130	0	0		
Chloroform	0.0855	0.010	0.1034	0	82.7	70	130	0	0		
Chloromethane	0.06897	0.021	0.1034	0	66.7	70	130	0	0		S
cis-1,2-Dichloroethene	0.07402	0.010	0.1034	0	71.6	70	130	0	0		
cis-1,3-Dichloropropene	0.04535	0.010	0.1034	0	43.8	70	130	0	0		S
Dibromochloromethane	0.0564	0.010	0.1034	0	54.5	70	130	0	0		S
Ethylbenzene	0.08441	0.010	0.1034	0.001503	80.1	70	130	0	0		
Methyl tert-butyl ether	0.0993	0.010	0.1034	0	96	50	150	0	0		
Methylene chloride	0.08054	0.021	0.1034	0	77.9	70	130	0	0		
Styrene	0.06482	0.010	0.1034	0	62.7	70	130	0	0		S
Tetrachloroethene	0.09072	0.010	0.1034	0	87.7	70	130	0	0		
Toluene	0.07849	0.010	0.1034	0.001446	74.5	47	150	0	0		
trans-1,2-Dichloroethene	0.07214	0.010	0.1034	0	69.7	70	130	0	0		S

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Sample ID **0412059-007AMS** SampType: **MS** TestCode: **VOC_ENCOR** Units: **mg/Kg-dry** Prep Date: **12/3/2004** Run ID: **VOA-2_041208A**
Client ID: **WSS-SB58-001** Batch ID: **12076** TestNo: **SW5035/8260** Analysis Date: **12/8/2004** SeqNo: **319605**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	0.05391	0.010	0.1034	0	52.1	70	130	0	0		S
Trichloroethene	0.07408	0.010	0.1034	0	71.6	71	157	0	0		
Vinyl chloride	0.0836	0.010	0.1034	0	80.8	70	130	0	0		
Xylenes, Total	0.2641	0.021	0.3103	0.01151	81.4	70	130	0	0		

Sample ID **0412059-008AMS** SampType: **MS** TestCode: **VOC_ENCOR** Units: **mg/Kg-dry** Prep Date: **12/3/2004** Run ID: **VOA-2_041208A**
Client ID: **WSS-SB58-002** Batch ID: **12076** TestNo: **SW5035/8260** Analysis Date: **12/8/2004** SeqNo: **319681**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.04867	0.0061	0.06056	0	80.4	70	130	0	0		
1,1,2,2-Tetrachloroethane	0.02719	0.0061	0.06056	0	44.9	70	130	0	0		S
1,1,2-Trichloroethane	0.03316	0.0061	0.06056	0	54.8	70	130	0	0		S
1,1-Dichloroethane	0.04329	0.0061	0.06056	0	71.5	70	130	0	0		
1,1-Dichloroethene	0.04896	0.0061	0.06056	0	80.8	50	234	0	0		
1,2-Dichloroethane	0.03527	0.0061	0.06056	0	58.2	70	130	0	0		S
1,2-Dichloropropane	0.03451	0.0061	0.06056	0	57	70	130	0	0		S
2-Butanone	0.04462	0.012	0.06056	0	73.7	70	130	0	0		
2-Hexanone	0.03459	0.012	0.06056	0	57.1	70	130	0	0		S
4-Methyl-2-pentanone	0.0383	0.012	0.06056	0	63.2	70	130	0	0		S
Acetone	0.07465	0.030	0.06056	0.01947	91.1	70	130	0	0		
Benzene	0.03902	0.0061	0.06056	0	64.4	37	151	0	0		
Bromodichloromethane	0.02123	0.0061	0.06056	0	35.1	70	130	0	0		S
Bromoform	0.01428	0.0061	0.06056	0	23.6	70	130	0	0		S
Bromomethane	0.03488	0.012	0.06056	0	57.6	70	130	0	0		S
Carbon disulfide	0.0596	0.0061	0.06056	0.001235	96.4	70	130	0	0		
Carbon tetrachloride	0.0397	0.0061	0.06056	0	65.6	70	130	0	0		S
Chlorobenzene	0.02844	0.0061	0.06056	0	47	37	160	0	0		
Chloroethane	0.05456	0.012	0.06056	0	90.1	70	130	0	0		
Chloroform	0.04084	0.0061	0.06056	0	67.4	70	130	0	0		S
Chloromethane	0.04664	0.012	0.06056	0	77	70	130	0	0		
cis-1,2-Dichloroethene	0.04117	0.0061	0.06056	0	68	70	130	0	0		S

Sample ID **0412059-008AMS** SampType: **MS** TestCode: **VOC_ENCOR** Units: **mg/Kg-dry** Prep Date: **12/3/2004** Run ID: **VOA-2_041208A**
Client ID: **WSS-SB58-002** Batch ID: **12076** TestNo: **SW5035/8260** Analysis Date: **12/8/2004** SeqNo: **319681**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	0.02015	0.0061	0.06056	0	33.3	70	130	0	0		S
Dibromochloromethane	0.02021	0.0061	0.06056	0	33.4	70	130	0	0		S
Ethylbenzene	0.03871	0.0061	0.06056	0.001113	62.1	70	130	0	0		S
Methyl tert-butyl ether	0.05736	0.0061	0.06056	0	94.7	50	150	0	0		
Methylene chloride	0.0483	0.012	0.06056	0	79.8	70	130	0	0		
Styrene	0.02237	0.0061	0.06056	0	36.9	70	130	0	0		S
Tetrachloroethene	0.04862	0.0061	0.06056	0	80.3	70	130	0	0		
Toluene	0.0356	0.0061	0.06056	0.003729	52.6	47	150	0	0		
trans-1,2-Dichloroethene	0.04546	0.0061	0.06056	0	75.1	70	130	0	0		
trans-1,3-Dichloropropene	0.02415	0.0061	0.06056	0	39.9	70	130	0	0		S
Trichloroethene	0.03567	0.0061	0.06056	0	58.9	71	157	0	0		S
Vinyl chloride	0.05823	0.0061	0.06056	0	96.2	70	130	0	0		
Xylenes, Total	0.1164	0.012	0.1817	0.002727	62.6	70	130	0	0		S

Sample ID **0412059-007AMSD** SampType: **MSD** TestCode: **VOC_ENCOR** Units: **mg/Kg-dry** Prep Date: **12/3/2004** Run ID: **VOA-2_041208A**
Client ID: **WSS-SB58-001** Batch ID: **12076** TestNo: **SW5035/8260** Analysis Date: **12/8/2004** SeqNo: **319668**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0757	0.0089	0.08915	0	84.9	70	130	0.09293	20.4	25	
1,1,2,2-Tetrachloroethane	0.05302	0.0089	0.08915	0	59.5	70	130	0.06	12.3	25	S
1,1,2-Trichloroethane	0.0739	0.0089	0.08915	0	82.9	70	130	0.0812	9.41	25	
1,1-Dichloroethane	0.07599	0.0089	0.08915	0	85.2	70	130	0.0895	16.3	25	
1,1-Dichloroethene	0.07317	0.0089	0.08915	0	82.1	50	234	0.08104	10.2	25	
1,2-Dichloroethane	0.06363	0.0089	0.08915	0	71.4	70	130	0.07566	17.3	25	
1,2-Dichloropropane	0.0682	0.0089	0.08915	0	76.5	70	130	0.08242	18.9	25	
2-Butanone	0.05456	0.018	0.08915	0	61.2	70	130	0.07562	32.4	25	SR
2-Hexanone	0.07576	0.018	0.08915	0	85	70	130	0.08263	8.68	25	
4-Methyl-2-pentanone	0.07125	0.018	0.08915	0	79.9	70	130	0.08269	14.9	25	
Acetone	0.142	0.045	0.08915	0.0299	126	70	130	0.2049	36.3	25	R
Benzene	0.07296	0.0089	0.08915	0.003606	77.8	37	151	0.08886	19.7	25	
Bromodichloromethane	0.04037	0.0089	0.08915	0	45.3	70	130	0.05501	30.7	25	SR

Sample ID **0412059-007AMSD** SampType: **MSD** TestCode: **VOC_ENCOR** Units: **mg/Kg-dry** Prep Date: **12/3/2004** Run ID: **VOA-2_041208A**
Client ID: **WSS-SB58-001** Batch ID: **12076** TestNo: **SW5035/8260** Analysis Date: **12/8/2004** SeqNo: **319668**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	0.02963	0.0089	0.08915	0	33.2	70	130	0.04115	32.5	25	SR
Bromomethane	0.04837	0.018	0.08915	0	54.3	70	130	0.05458	12.1	25	S
Carbon disulfide	0.07463	0.0089	0.08915	0.00462	78.5	70	130	0.08503	13.0	25	
Carbon tetrachloride	0.05454	0.0089	0.08915	0	61.2	70	130	0.06717	20.8	25	S
Chlorobenzene	0.06502	0.0089	0.08915	0	72.9	37	160	0.0745	13.6	25	
Chloroethane	0.07865	0.018	0.08915	0	88.2	70	130	0.08799	11.2	25	
Chloroform	0.07374	0.0089	0.08915	0	82.7	70	130	0.0855	14.8	25	
Chloromethane	0.05784	0.018	0.08915	0	64.9	70	130	0.06897	17.6	25	S
cis-1,2-Dichloroethene	0.06497	0.0089	0.08915	0	72.9	70	130	0.07402	13.0	25	
cis-1,3-Dichloropropene	0.04094	0.0089	0.08915	0	45.9	70	130	0.04535	10.2	25	S
Dibromochloromethane	0.04185	0.0089	0.08915	0	46.9	70	130	0.0564	29.6	25	SR
Ethylbenzene	0.07258	0.0089	0.08915	0.001503	79.7	70	130	0.08441	15.1	25	
Methyl tert-butyl ether	0.08241	0.0089	0.08915	0	92.4	50	150	0.0993	18.6	0	
Methylene chloride	0.06611	0.018	0.08915	0	74.2	70	130	0.08054	19.7	25	
Styrene	0.05672	0.0089	0.08915	0	63.6	70	130	0.06482	13.3	25	S
Tetrachloroethene	0.0772	0.0089	0.08915	0	86.6	70	130	0.09072	16.1	25	
Toluene	0.06709	0.0089	0.08915	0.001446	73.6	47	150	0.07849	15.7	25	
trans-1,2-Dichloroethene	0.06419	0.0089	0.08915	0	72	70	130	0.07214	11.7	25	
trans-1,3-Dichloropropene	0.04546	0.0089	0.08915	0	51	70	130	0.05391	17.0	25	S
Trichloroethene	0.06422	0.0089	0.08915	0	72	71	157	0.07408	14.3	25	
Vinyl chloride	0.07353	0.0089	0.08915	0	82.5	70	130	0.0836	12.8	25	
Xylenes, Total	0.2279	0.018	0.2674	0.01151	80.9	70	130	0.2641	14.7	25	

Sample ID **0412059-008AMSD** SampType: **MSD** TestCode: **VOC_ENCOR** Units: **mg/Kg-dry** Prep Date: **12/3/2004** Run ID: **VOA-2_041208A**
Client ID: **WSS-SB58-002** Batch ID: **12076** TestNo: **SW5035/8260** Analysis Date: **12/8/2004** SeqNo: **319913**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.04225	0.0059	0.05871	0	72	70	130	0.04867	14.1	25	
1,1,2,2-Tetrachloroethane	0.0168	0.0059	0.05871	0	28.6	70	130	0.02719	47.2	25	SR
1,1,2-Trichloroethane	0.02351	0.0059	0.05871	0	40	70	130	0.03316	34.1	25	SR
1,1-Dichloroethane	0.03455	0.0059	0.05871	0	58.8	70	130	0.04329	22.5	25	S

ANALYTICAL QC SUMMARY REPORT

BatchID: 12076

Sample ID **0412059-008AMSD** SampType: **MSD** TestCode: **VOC_ENCOR** Units: **mg/Kg-dry** Prep Date: **12/3/2004** Run ID: **VOA-2_041208A**
Client ID: **WSS-SB58-002** Batch ID: **12076** TestNo: **SW5035/8260** Analysis Date: **12/8/2004** SeqNo: **319913**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.04448	0.0059	0.05871	0	75.8	50	234	0.04896	9.58	25	
1,2-Dichloroethane	0.02553	0.0059	0.05871	0	43.5	70	130	0.03527	32.0	25	SR
1,2-Dichloropropane	0.02533	0.0059	0.05871	0	43.1	70	130	0.03451	30.7	25	SR
2-Butanone	0.04212	0.012	0.05871	0	71.7	70	130	0.04462	5.77	25	
2-Hexanone	0.02553	0.012	0.05871	0	43.5	70	130	0.03459	30.2	25	SR
4-Methyl-2-pentanone	0.02931	0.012	0.05871	0	49.9	70	130	0.0383	26.6	25	SR
Acetone	0.0776	0.029	0.05871	0.01947	99	70	130	0.07465	3.89	25	
Benzene	0.02965	0.0059	0.05871	0	50.5	37	151	0.03902	27.3	25	R
Bromodichloromethane	0.01209	0.0059	0.05871	0	20.6	70	130	0.02123	54.8	25	SR
Bromoform	0.006458	0.0059	0.05871	0	11	70	130	0.01428	75.4	25	SR
Bromomethane	0.02878	0.012	0.05871	0	49	70	130	0.03488	19.2	25	S
Carbon disulfide	0.05171	0.0059	0.05871	0.001235	86	70	130	0.0596	14.2	25	
Carbon tetrachloride	0.03437	0.0059	0.05871	0	58.5	70	130	0.0397	14.4	25	S
Chlorobenzene	0.02205	0.0059	0.05871	0	37.6	37	160	0.02844	25.3	25	R
Chloroethane	0.04871	0.012	0.05871	0	83	70	130	0.05456	11.3	25	
Chloroform	0.02965	0.0059	0.05871	0	50.5	70	130	0.04084	31.8	25	SR
Chloromethane	0.04623	0.012	0.05871	0	78.7	70	130	0.04664	0.891	25	
cis-1,2-Dichloroethene	0.03176	0.0059	0.05871	0	54.1	70	130	0.04117	25.8	25	SR
cis-1,3-Dichloropropene	0.01158	0.0059	0.05871	0	19.7	70	130	0.02015	54.1	25	SR
Dibromochloromethane	0.01073	0.0059	0.05871	0	18.3	70	130	0.02021	61.3	25	SR
Ethylbenzene	0.03525	0.0059	0.05871	0.001113	58.1	70	130	0.03871	9.36	25	S
Methyl tert-butyl ether	0.05656	0.0059	0.05871	0	96.3	50	150	0.05736	1.40	0	
Methylene chloride	0.04286	0.012	0.05871	0	73	70	130	0.0483	11.9	25	
Styrene	0.01711	0.0059	0.05871	0	29.1	70	130	0.02237	26.7	25	SR
Tetrachloroethene	0.04495	0.0059	0.05871	0	76.6	70	130	0.04862	7.84	25	
Toluene	0.02835	0.0059	0.05871	0.003729	41.9	47	150	0.0356	22.7	25	S
trans-1,2-Dichloroethene	0.03799	0.0059	0.05871	0	64.7	70	130	0.04546	17.9	25	S
trans-1,3-Dichloropropene	0.01296	0.0059	0.05871	0	22.1	70	130	0.02415	60.3	25	SR
Trichloroethene	0.02737	0.0059	0.05871	0	46.6	71	157	0.03567	26.3	25	SR
Vinyl chloride	0.05566	0.0059	0.05871	0	94.8	70	130	0.05823	4.52	25	
Xylenes, Total	0.1041	0.012	0.1761	0.002727	57.6	70	130	0.1164	11.2	25	S

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12105

Sample ID **0412059-007AMS** SampType: **MS** TestCode: **VOC_ENCOR** Units: **mg/Kg-dry** Prep Date: **12/3/2004** Run ID: **VOA-2_041208B**
Client ID: **WSS-SB58-001** Batch ID: **12105** TestNo: **SW5035/8260** Analysis Date: **12/9/2004** SeqNo: **320114**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.1139	0.012	0.1191	0	95.7	70	130	0	0		
1,1,2,2-Tetrachloroethane	0.06805	0.012	0.1191	0	57.2	70	130	0	0		S
1,1,2-Trichloroethane	0.1022	0.012	0.1191	0	85.8	70	130	0	0		
1,1-Dichloroethane	0.1111	0.012	0.1191	0	93.3	70	130	0	0		
1,1-Dichloroethene	0.1068	0.012	0.1191	0	89.7	50	234	0	0		
1,2-Dichloroethane	0.0936	0.012	0.1191	0	78.6	70	130	0	0		
1,2-Dichloropropane	0.09865	0.012	0.1191	0	82.9	70	130	0	0		
2-Butanone	0.0912	0.024	0.1191	0	76.6	70	130	0	0		
2-Hexanone	0.09518	0.024	0.1191	0	79.9	70	130	0	0		
4-Methyl-2-pentanone	0.09303	0.024	0.1191	0	78.1	70	130	0	0		
Acetone	0.2836	0.060	0.1191	0.0299	213	70	130	0	0		S
Benzene	0.1053	0.012	0.1191	0.003606	85.4	37	151	0	0		
Bromodichloromethane	0.07474	0.012	0.1191	0	62.8	70	130	0	0		S
Bromoform	0.05958	0.012	0.1191	0	50	70	130	0	0		S
Bromomethane	0.07482	0.024	0.1191	0	62.8	70	130	0	0		S
Carbon disulfide	0.109	0.012	0.1191	0.00462	87.7	70	130	0	0		
Carbon tetrachloride	0.09756	0.012	0.1191	0	81.9	70	130	0	0		
Chlorobenzene	0.09146	0.012	0.1191	0	76.8	37	160	0	0		
Chloroethane	0.115	0.024	0.1191	0	96.6	70	130	0	0		
Chloroform	0.1072	0.012	0.1191	0	90.1	70	130	0	0		
Chloromethane	0.08641	0.024	0.1191	0	72.6	70	130	0	0		
cis-1,2-Dichloroethene	0.09294	0.012	0.1191	0	78.1	70	130	0	0		
cis-1,3-Dichloropropene	0.05881	0.012	0.1191	0	49.4	70	130	0	0		S
Dibromochloromethane	0.07948	0.012	0.1191	0	66.8	70	130	0	0		S
Ethylbenzene	0.1045	0.012	0.1191	0.001503	86.5	70	130	0	0		
Methyl tert-butyl ether	0.1197	0.012	0.1191	0	101	50	150	0	0		
Methylene chloride	0.09437	0.024	0.1191	0	79.3	70	130	0	0		
Styrene	0.07575	0.012	0.1191	0	63.6	70	130	0	0		S
Tetrachloroethene	0.1136	0.012	0.1191	0	95.4	70	130	0	0		
Toluene	0.09606	0.012	0.1191	0.001446	79.5	47	150	0	0		
trans-1,2-Dichloroethene	0.09394	0.012	0.1191	0	78.9	70	130	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

Sample ID	0412059-007AMS	SampType:	MS	TestCode:	VOC_ENCOR	Units:	mg/Kg-dry	Prep Date:	12/3/2004	Run ID:	VOA-2_041208B
Client ID:	WSS-SB58-001	Batch ID:	12105	TestNo:	SW5035/8260			Analysis Date:	12/9/2004	SeqNo:	320114

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	0.0692	0.012	0.1191	0	58.1	70	130	0	0		S
Trichloroethene	0.09213	0.012	0.1191	0	77.4	71	157	0	0		
Vinyl chloride	0.1074	0.012	0.1191	0	90.2	70	130	0	0		
Xylenes, Total	0.3171	0.024	0.3572	0.01151	85.6	70	130	0	0		

Sample ID	0412059-008AMS	SampType:	MS	TestCode:	VOC_ENCOR	Units:	mg/Kg-dry	Prep Date:	12/3/2004	Run ID:	VOA-2_041208B
Client ID:	WSS-SB58-002	Batch ID:	12105	TestNo:	SW5035/8260			Analysis Date:	12/9/2004	SeqNo:	320118

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.04885	0.0060	0.05987	0	81.6	70	130	0	0		
1,1,2,2-Tetrachloroethane	0.0265	0.0060	0.05987	0	44.3	70	130	0	0		S
1,1,2-Trichloroethane	0.03336	0.0060	0.05987	0	55.7	70	130	0	0		S
1,1-Dichloroethane	0.04198	0.0060	0.05987	0	70.1	70	130	0	0		
1,1-Dichloroethene	0.04539	0.0060	0.05987	0	75.8	50	234	0	0		
1,2-Dichloroethane	0.03387	0.0060	0.05987	0	56.6	70	130	0	0		S
1,2-Dichloropropane	0.03267	0.0060	0.05987	0	54.6	70	130	0	0		S
2-Butanone	0.04464	0.012	0.05987	0	74.6	70	130	0	0		
2-Hexanone	0.03301	0.012	0.05987	0	55.1	70	130	0	0		S
4-Methyl-2-pentanone	0.03599	0.012	0.05987	0	60.1	70	130	0	0		S
Acetone	0.07714	0.030	0.05987	0.01254	108	70	130	0	0		
Benzene	0.03734	0.0060	0.05987	0	62.4	37	151	0	0		
Bromodichloromethane	0.0208	0.0060	0.05987	0	34.7	70	130	0	0		S
Bromoform	0.01543	0.0060	0.05987	0	25.8	70	130	0	0		S
Bromomethane	0.03663	0.012	0.05987	0	61.2	70	130	0	0		S
Carbon disulfide	0.05982	0.0060	0.05987	0.0008626	98.5	70	130	0	0		
Carbon tetrachloride	0.04049	0.0060	0.05987	0	67.6	70	130	0	0		S
Chlorobenzene	0.02652	0.0060	0.05987	0	44.3	37	160	0	0		
Chloroethane	0.04971	0.012	0.05987	0	83	70	130	0	0		
Chloroform	0.04086	0.0060	0.05987	0	68.3	70	130	0	0		S
Chloromethane	0.04592	0.012	0.05987	0	76.7	70	130	0	0		
cis-1,2-Dichloroethene	0.03876	0.0060	0.05987	0	64.7	70	130	0	0		S

Sample ID **0412059-008AMS** SampType: **MS** TestCode: **VOC_ENCOR** Units: **mg/Kg-dry** Prep Date: **12/3/2004** Run ID: **VOA-2_041208B**
Client ID: **WSS-SB58-002** Batch ID: **12105** TestNo: **SW5035/8260** Analysis Date: **12/9/2004** SeqNo: **320118**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	0.02146	0.0060	0.05987	0	35.8	70	130	0	0		S
Dibromochloromethane	0.02158	0.0060	0.05987	0	36	70	130	0	0		S
Ethylbenzene	0.03603	0.0060	0.05987	0.001227	58.1	70	130	0	0		S
Methyl tert-butyl ether	0.05601	0.0060	0.05987	0	93.6	50	150	0	0		
Methylene chloride	0.04683	0.012	0.05987	0.001555	75.6	70	130	0	0		
Styrene	0.0213	0.0060	0.05987	0	35.6	70	130	0	0		S
Tetrachloroethene	0.04665	0.0060	0.05987	0	77.9	70	130	0	0		
Toluene	0.03339	0.0060	0.05987	0.002916	50.9	47	150	0	0		
trans-1,2-Dichloroethene	0.04502	0.0060	0.05987	0	75.2	70	130	0	0		
trans-1,3-Dichloropropene	0.02362	0.0060	0.05987	0	39.5	70	130	0	0		S
Trichloroethene	0.03397	0.0060	0.05987	0	56.7	71	157	0	0		S
Vinyl chloride	0.05528	0.0060	0.05987	0	92.3	70	130	0	0		
Xylenes, Total	0.1103	0.012	0.1796	0.005601	58.3	70	130	0	0		S

Sample ID **0412059-007AMSD** SampType: **MSD** TestCode: **VOC_ENCOR** Units: **mg/Kg-dry** Prep Date: **12/3/2004** Run ID: **VOA-2_041208B**
Client ID: **WSS-SB58-001** Batch ID: **12105** TestNo: **SW5035/8260** Analysis Date: **12/9/2004** SeqNo: **320115**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.1064	0.011	0.1102	0	96.6	70	130	0.09293	13.6	25	
1,1,2,2-Tetrachloroethane	0.06033	0.011	0.1102	0	54.8	70	130	0.06	0.556	25	S
1,1,2-Trichloroethane	0.08884	0.011	0.1102	0	80.6	70	130	0.0812	8.99	25	
1,1-Dichloroethane	0.1008	0.011	0.1102	0	91.5	70	130	0.0895	11.9	25	
1,1-Dichloroethene	0.1007	0.011	0.1102	0	91.4	50	234	0.08104	21.6	25	
1,2-Dichloroethane	0.08587	0.011	0.1102	0	77.9	70	130	0.07566	12.6	25	
1,2-Dichloropropane	0.09252	0.011	0.1102	0	84	70	130	0.08242	11.5	25	
2-Butanone	0.07888	0.022	0.1102	0	71.6	70	130	0.07562	4.23	25	
2-Hexanone	0.09301	0.022	0.1102	0	84.4	70	130	0.08263	11.8	25	
4-Methyl-2-pentanone	0.0918	0.022	0.1102	0	83.3	70	130	0.08269	10.4	25	
Acetone	0.2253	0.055	0.1102	0.0299	177	70	130	0.2049	9.46	25	S
Benzene	0.1002	0.011	0.1102	0.003606	87.7	37	151	0.08886	12.0	25	
Bromodichloromethane	0.06249	0.011	0.1102	0	56.7	70	130	0.05501	12.7	25	S

Sample ID **0412059-007AMSD** SampType: **MSD** TestCode: **VOC_ENCOR** Units: **mg/Kg-dry** Prep Date: **12/3/2004** Run ID: **VOA-2_041208B**
Client ID: **WSS-SB58-001** Batch ID: **12105** TestNo: **SW5035/8260** Analysis Date: **12/9/2004** SeqNo: **320115**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	0.04685	0.011	0.1102	0	42.5	70	130	0.04115	12.9	25	S
Bromomethane	0.06765	0.022	0.1102	0	61.4	70	130	0.05458	21.4	25	S
Carbon disulfide	0.1049	0.011	0.1102	0.00462	91	70	130	0.08503	20.9	25	
Carbon tetrachloride	0.08752	0.011	0.1102	0	79.4	70	130	0.06717	26.3	25	R
Chlorobenzene	0.07862	0.011	0.1102	0	71.4	37	160	0.0745	5.38	25	
Chloroethane	0.1009	0.022	0.1102	0	91.6	70	130	0.08799	13.7	25	
Chloroform	0.09946	0.011	0.1102	0	90.3	70	130	0.0855	15.1	25	
Chloromethane	0.07921	0.022	0.1102	0	71.9	70	130	0.06897	13.8	25	
cis-1,2-Dichloroethene	0.08353	0.011	0.1102	0	75.8	70	130	0.07402	12.1	25	
cis-1,3-Dichloropropene	0.05584	0.011	0.1102	0	50.7	70	130	0.04535	20.7	25	S
Dibromochloromethane	0.06342	0.011	0.1102	0	57.6	70	130	0.0564	11.7	25	S
Ethylbenzene	0.09446	0.011	0.1102	0.001503	84.4	70	130	0.08441	11.2	25	
Methyl tert-butyl ether	0.1129	0.011	0.1102	0	102	50	150	0.0993	12.8	0	
Methylene chloride	0.09217	0.022	0.1102	0	83.7	70	130	0.08054	13.5	25	
Styrene	0.06538	0.011	0.1102	0	59.3	70	130	0.06482	0.860	25	S
Tetrachloroethene	0.1036	0.011	0.1102	0	94.1	70	130	0.09072	13.3	25	
Toluene	0.08994	0.011	0.1102	0.001446	80.3	47	150	0.07849	13.6	25	
trans-1,2-Dichloroethene	0.08717	0.011	0.1102	0	79.1	70	130	0.07214	18.9	25	
trans-1,3-Dichloropropene	0.05903	0.011	0.1102	0	53.6	70	130	0.05391	9.06	25	S
Trichloroethene	0.08887	0.011	0.1102	0	80.7	71	157	0.07408	18.1	25	
Vinyl chloride	0.1015	0.011	0.1102	0	92.1	70	130	0.0836	19.3	25	
Xylenes, Total	0.2875	0.022	0.3305	0.01151	83.5	70	130	0.2641	8.45	25	

Sample ID **0412059-008AMSD** SampType: **MSD** TestCode: **VOC_ENCOR** Units: **mg/Kg-dry** Prep Date: **12/3/2004** Run ID: **VOA-2_041208B**
Client ID: **WSS-SB58-002** Batch ID: **12105** TestNo: **SW5035/8260** Analysis Date: **12/9/2004** SeqNo: **320119**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.05033	0.0058	0.05803	0	86.7	70	130	0.04885	2.99	25	
1,1,2,2-Tetrachloroethane	0.02617	0.0058	0.05803	0	45.1	70	130	0.0265	1.24	25	S
1,1,2-Trichloroethane	0.03335	0.0058	0.05803	0	57.5	70	130	0.03336	0.0108	25	S
1,1-Dichloroethane	0.04169	0.0058	0.05803	0	71.8	70	130	0.04198	0.697	25	

Qualifiers:
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

ANALYTICAL QC SUMMARY REPORT

BatchID: 12105

Sample ID **0412059-008AMSD** SampType: **MSD** TestCode: **VOC_ENCOR** Units: **mg/Kg-dry** Prep Date: **12/3/2004** Run ID: **VOA-2_041208B**
Client ID: **WSS-SB58-002** Batch ID: **12105** TestNo: **SW5035/8260** Analysis Date: **12/9/2004** SeqNo: **320119**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.04865	0.0058	0.05803	0	83.8	50	234	0.04539	6.93	25	
1,2-Dichloroethane	0.03205	0.0058	0.05803	0	55.2	70	130	0.03387	5.52	25	S
1,2-Dichloropropane	0.03155	0.0058	0.05803	0	54.4	70	130	0.03267	3.49	25	S
2-Butanone	0.03873	0.012	0.05803	0	66.7	70	130	0.04464	14.2	25	S
2-Hexanone	0.03158	0.012	0.05803	0	54.4	70	130	0.03301	4.43	25	S
4-Methyl-2-pentanone	0.03449	0.012	0.05803	0	59.4	70	130	0.03599	4.26	25	S
Acetone	0.08128	0.029	0.05803	0.01254	118	70	130	0.07714	5.23	25	
Benzene	0.03737	0.0058	0.05803	0	64.4	37	151	0.03734	0.0663	25	
Bromodichloromethane	0.01929	0.0058	0.05803	0	33.2	70	130	0.0208	7.53	25	S
Bromoform	0.01174	0.0058	0.05803	0	20.2	70	130	0.01543	27.1	25	SR
Bromomethane	0.03266	0.012	0.05803	0	56.3	70	130	0.03663	11.5	25	S
Carbon disulfide	0.0574	0.0058	0.05803	0.0008626	97.4	70	130	0.05982	4.13	25	
Carbon tetrachloride	0.04207	0.0058	0.05803	0	72.5	70	130	0.04049	3.82	25	
Chlorobenzene	0.02915	0.0058	0.05803	0	50.2	37	160	0.02652	9.46	25	
Chloroethane	0.05392	0.012	0.05803	0	92.9	70	130	0.04971	8.12	25	
Chloroform	0.03772	0.0058	0.05803	0	65	70	130	0.04086	8.01	25	S
Chloromethane	0.0478	0.012	0.05803	0	82.4	70	130	0.04592	4.02	25	
cis-1,2-Dichloroethene	0.03565	0.0058	0.05803	0	61.4	70	130	0.03876	8.35	25	S
cis-1,3-Dichloropropene	0.018	0.0058	0.05803	0	31	70	130	0.02146	17.5	25	S
Dibromochloromethane	0.01889	0.0058	0.05803	0	32.6	70	130	0.02158	13.3	25	S
Ethylbenzene	0.04374	0.0058	0.05803	0.001227	73.3	70	130	0.03603	19.3	25	
Methyl tert-butyl ether	0.05752	0.0058	0.05803	0	99.1	50	150	0.05601	2.65	0	
Methylene chloride	0.04676	0.012	0.05803	0.001555	77.9	70	130	0.04683	0.148	25	
Styrene	0.02318	0.0058	0.05803	0	39.9	70	130	0.0213	8.43	25	S
Tetrachloroethene	0.05571	0.0058	0.05803	0	96	70	130	0.04665	17.7	25	
Toluene	0.03407	0.0058	0.05803	0.002916	53.7	47	150	0.03339	2.02	25	
trans-1,2-Dichloroethene	0.04447	0.0058	0.05803	0	76.6	70	130	0.04502	1.22	25	
trans-1,3-Dichloropropene	0.02111	0.0058	0.05803	0	36.4	70	130	0.02362	11.2	25	S
Trichloroethene	0.03299	0.0058	0.05803	0	56.9	71	157	0.03397	2.91	25	S
Vinyl chloride	0.05988	0.0058	0.05803	0	103	70	130	0.05528	7.99	25	
Xylenes, Total	0.1298	0.012	0.1741	0.005601	71.4	70	130	0.1103	16.2	25	

Qualifiers:
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R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15577

Sample ID **VBLK120804-2** SampType: **MBLK** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041208A**
Client ID: **ZZZZZ** Batch ID: **R15577** TestNo: **SW5035/8260** Analysis Date: **12/8/2004** SeqNo: **319434**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.0050									
1,1,2,2-Tetrachloroethane	ND	0.0050									
1,1,2-Trichloroethane	ND	0.0050									
1,1-Dichloroethane	ND	0.0050									
1,1-Dichloroethene	ND	0.0050									
1,2-Dichloroethane	ND	0.0050									
1,2-Dichloropropane	ND	0.0050									
2-Butanone	ND	0.010									
2-Hexanone	ND	0.010									
4-Methyl-2-pentanone	ND	0.010									
Acetone	ND	0.025									
Benzene	ND	0.0050									
Bromodichloromethane	ND	0.0050									
Bromoform	ND	0.0050									
Bromomethane	ND	0.010									
Carbon disulfide	ND	0.0050									
Carbon tetrachloride	ND	0.0050									
Chlorobenzene	ND	0.0050									
Chloroethane	ND	0.010									
Chloroform	ND	0.0050									
Chloromethane	ND	0.010									
cis-1,2-Dichloroethene	ND	0.0050									
cis-1,3-Dichloropropene	ND	0.0050									
Dibromochloromethane	ND	0.0050									
Ethylbenzene	ND	0.0050									
Methyl tert-butyl ether	ND	0.0050									
Methylene chloride	ND	0.010									
Styrene	ND	0.0050									
Tetrachloroethene	ND	0.0050									
Toluene	ND	0.0050									
trans-1,2-Dichloroethene	ND	0.0050									

Qualifiers:
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R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

Sample ID	VBLK120804-2	SampType:	MBLK	TestCode:	VOC_ENCOR	Units:	mg/Kg	Prep Date:		Run ID:	VOA-2_041208A
Client ID:	ZZZZZ	Batch ID:	R15577	TestNo:	SW5035/8260			Analysis Date:	12/8/2004	SeqNo:	319434

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	ND	0.0050									
Trichloroethene	ND	0.0050									
Vinyl chloride	ND	0.0050									
Xylenes, Total	ND	0.010									

Sample ID	VLCS120804-2	SampType:	LCS	TestCode:	VOC_ENCOR	Units:	mg/Kg	Prep Date:		Run ID:	VOA-2_041208A
Client ID:	ZZZZZ	Batch ID:	R15577	TestNo:	SW5035/8260			Analysis Date:	12/8/2004	SeqNo:	319436

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.05125	0.0050	0.05	0	103	70	130	0.04967	0	0	
1,1,2,2-Tetrachloroethane	0.04424	0.0050	0.05	0	88.5	70	130	0.0429	0	0	
1,1,2-Trichloroethane	0.04922	0.0050	0.05	0	98.4	70	130	0.04676	0	0	
1,1-Dichloroethane	0.0497	0.0050	0.05	0	99.4	70	130	0.04777	0	0	
1,1-Dichloroethene	0.04826	0.0050	0.05	0	96.5	70	130	0.04759	0	0	
1,2-Dichloroethane	0.04911	0.0050	0.05	0	98.2	70	130	0.04708	0	0	
1,2-Dichloropropane	0.04875	0.0050	0.05	0	97.5	70	130	0.04751	0	0	
2-Butanone	0.04764	0.010	0.05	0	95.3	70	130	0.04602	0	0	
2-Hexanone	0.05346	0.010	0.05	0	107	70	130	0.04915	0	0	
4-Methyl-2-pentanone	0.05134	0.010	0.05	0	103	70	130	0.05018	0	0	
Acetone	0.06857	0.025	0.05	0	137	50	150	0.06562	0	0	
Benzene	0.04926	0.0050	0.05	0	98.5	70	130	0.04815	0	0	
Bromodichloromethane	0.04461	0.0050	0.05	0	89.2	70	130	0.04367	0	0	
Bromoform	0.04706	0.0050	0.05	0	94.1	70	130	0.04439	0	0	
Bromomethane	0.0363	0.010	0.05	0	72.6	70	130	0.03322	0	0	
Carbon disulfide	0.06226	0.0050	0.05	0	125	70	130	0.0612	0	0	
Carbon tetrachloride	0.05116	0.0050	0.05	0	102	70	130	0.0499	0	0	
Chlorobenzene	0.05087	0.0050	0.05	0	102	70	130	0.04908	0	0	
Chloroethane	0.05161	0.010	0.05	0	103	70	130	0.04807	0	0	
Chloroform	0.05077	0.0050	0.05	0	102	70	130	0.04894	0	0	
Chloromethane	0.04012	0.010	0.05	0	80.2	70	130	0.03926	0	0	
cis-1,2-Dichloroethene	0.05023	0.0050	0.05	0	100	70	130	0.04759	0	0	

CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15577

Sample ID **VLCS120804-2** SampType: **LCS** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041208A**
Client ID: **ZZZZZ** Batch ID: **R15577** TestNo: **SW5035/8260** Analysis Date: **12/8/2004** SeqNo: **319436**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	0.04827	0.0050	0.05	0	96.5	70	130	0.04808	0	0	
Dibromochloromethane	0.04824	0.0050	0.05	0	96.5	70	130	0.04652	0	0	
Ethylbenzene	0.05063	0.0050	0.05	0	101	70	130	0.04929	0	0	
Methyl tert-butyl ether	0.05061	0.0050	0.05	0	101	50	150	0.0466	0	0	
Methylene chloride	0.04798	0.010	0.05	0	96	70	130	0.04492	0	0	
Styrene	0.04846	0.0050	0.05	0	96.9	70	130	0.04727	0	0	
Tetrachloroethene	0.05551	0.0050	0.05	0	111	70	130	0.05309	0	0	
Toluene	0.05078	0.0050	0.05	0	102	70	130	0.04881	0	0	
trans-1,2-Dichloroethene	0.05083	0.0050	0.05	0	102	70	130	0.04828	0	0	
trans-1,3-Dichloropropene	0.05373	0.0050	0.05	0	107	70	130	0.05117	0	0	
Trichloroethene	0.05376	0.0050	0.05	0	108	70	130	0.05131	0	0	
Vinyl chloride	0.05153	0.0050	0.05	0	103	70	130	0.05085	0	0	
Xylenes, Total	0.1578	0.010	0.15	0	105	70	130	0.152	0	0	

Qualifiers:
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B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15606

Sample ID **VBLK120804a-2** SampType: **MBLK** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041208B**
Client ID: **ZZZZZ** Batch ID: **R15606** TestNo: **SW5035/8260** Analysis Date: **12/8/2004** SeqNo: **320109**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.0050									
1,1,2,2-Tetrachloroethane	ND	0.0050									
1,1,2-Trichloroethane	ND	0.0050									
1,1-Dichloroethane	ND	0.0050									
1,1-Dichloroethene	ND	0.0050									
1,2-Dichloroethane	ND	0.0050									
1,2-Dichloropropane	ND	0.0050									
2-Butanone	ND	0.010									
2-Hexanone	ND	0.010									
4-Methyl-2-pentanone	ND	0.010									
Acetone	ND	0.025									
Benzene	ND	0.0050									
Bromodichloromethane	ND	0.0050									
Bromoform	ND	0.0050									
Bromomethane	ND	0.010									
Carbon disulfide	ND	0.0050									
Carbon tetrachloride	ND	0.0050									
Chlorobenzene	ND	0.0050									
Chloroethane	ND	0.010									
Chloroform	ND	0.0050									
Chloromethane	ND	0.010									
cis-1,2-Dichloroethene	ND	0.0050									
cis-1,3-Dichloropropene	ND	0.0050									
Dibromochloromethane	ND	0.0050									
Ethylbenzene	ND	0.0050									
Methyl tert-butyl ether	ND	0.0050									
Methylene chloride	0.00436	0.010									J
Styrene	ND	0.0050									
Tetrachloroethene	ND	0.0050									
Toluene	ND	0.0050									
trans-1,2-Dichloroethene	ND	0.0050									

Qualifiers:
ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15606

Sample ID	VBLK120804a-2	SampType:	MBLK	TestCode:	VOC_ENCOR	Units:	mg/Kg	Prep Date:		Run ID:	VOA-2_041208B
Client ID:	ZZZZZ	Batch ID:	R15606	TestNo:	SW5035/8260			Analysis Date:	12/8/2004	SeqNo:	320109

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	ND	0.0050									
Trichloroethene	ND	0.0050									
Vinyl chloride	ND	0.0050									
Xylenes, Total	ND	0.010									

Sample ID	VLCS120804A-2	SampType:	LCS	TestCode:	VOC_ENCOR	Units:	mg/Kg	Prep Date:		Run ID:	VOA-2_041208B
Client ID:	ZZZZZ	Batch ID:	R15606	TestNo:	SW5035/8260			Analysis Date:	12/8/2004	SeqNo:	320110

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.04839	0.0050	0.05	0	96.8	70	130	0	0		
1,1,2,2-Tetrachloroethane	0.04354	0.0050	0.05	0	87.1	70	130	0	0		
1,1,2-Trichloroethane	0.0486	0.0050	0.05	0	97.2	70	130	0	0		
1,1-Dichloroethane	0.04704	0.0050	0.05	0	94.1	70	130	0	0		
1,1-Dichloroethene	0.04583	0.0050	0.05	0	91.7	70	130	0	0		
1,2-Dichloroethane	0.04964	0.0050	0.05	0	99.3	70	130	0	0		
1,2-Dichloropropane	0.04561	0.0050	0.05	0	91.2	70	130	0	0		
2-Butanone	0.04875	0.010	0.05	0	97.5	70	130	0	0		
2-Hexanone	0.04437	0.010	0.05	0	88.7	70	130	0	0		
4-Methyl-2-pentanone	0.04491	0.010	0.05	0	89.8	70	130	0	0		
Acetone	0.05825	0.025	0.05	0	116	50	150	0	0		
Benzene	0.04706	0.0050	0.05	0	94.1	70	130	0	0		
Bromodichloromethane	0.04388	0.0050	0.05	0	87.8	70	130	0	0		
Bromoform	0.04745	0.0050	0.05	0	94.9	70	130	0	0		
Bromomethane	0.03668	0.010	0.05	0	73.4	70	130	0	0		
Carbon disulfide	0.06115	0.0050	0.05	0	122	70	130	0	0		
Carbon tetrachloride	0.04788	0.0050	0.05	0	95.8	70	130	0	0		
Chlorobenzene	0.04764	0.0050	0.05	0	95.3	70	130	0	0		
Chloroethane	0.04616	0.010	0.05	0	92.3	70	130	0	0		
Chloroform	0.04913	0.0050	0.05	0	98.3	70	130	0	0		
Chloromethane	0.03657	0.010	0.05	0	73.1	70	130	0	0		
cis-1,2-Dichloroethene	0.04949	0.0050	0.05	0	99	70	130	0	0		

Qualifiers:
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Sample ID **VLCS120804A-2**	SampType: **LCS**	TestCode: **VOC_ENCOR**	Units: **mg/Kg**	Prep Date:	Run ID: **VOA-2_041208B**
Client ID: **ZZZZZ**	Batch ID: **R15606**	TestNo: **SW5035/8260**		Analysis Date: **12/8/2004**	SeqNo: **320110**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	0.04648	0.0050	0.05	0	93	70	130	0	0		
Dibromochloromethane	0.04848	0.0050	0.05	0	97	70	130	0	0		
Ethylbenzene	0.04738	0.0050	0.05	0	94.8	70	130	0	0		
Methyl tert-butyl ether	0.04914	0.0050	0.05	0	98.3	50	150	0	0		
Methylene chloride	0.04532	0.010	0.05	0.00436	81.9	70	130	0	0		
Styrene	0.045	0.0050	0.05	0	90	70	130	0	0		
Tetrachloroethene	0.05087	0.0050	0.05	0	102	70	130	0	0		
Toluene	0.04651	0.0050	0.05	0	93	70	130	0	0		
trans-1,2-Dichloroethene	0.04986	0.0050	0.05	0	99.7	70	130	0	0		
trans-1,3-Dichloropropene	0.05239	0.0050	0.05	0	105	70	130	0	0		
Trichloroethene	0.04827	0.0050	0.05	0	96.5	70	130	0	0		
Vinyl chloride	0.04699	0.0050	0.05	0	94	70	130	0	0		
Xylenes, Total	0.1462	0.010	0.15	0	97.5	70	130	0	0		

Sample ID **VLCSD120804A-2**	SampType: **LCSD**	TestCode: **VOC_ENCOR**	Units: **mg/Kg**	Prep Date:	Run ID: **VOA-2_041208B**
Client ID: **ZZZZZ**	Batch ID: **R15606**	TestNo: **SW5035/8260**		Analysis Date: **12/8/2004**	SeqNo: **320111**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.04828	0.0050	0.05	0	96.6	70	130	0.04839	0.228	20	
1,1,2,2-Tetrachloroethane	0.04338	0.0050	0.05	0	86.8	70	130	0.04354	0.368	20	
1,1,2-Trichloroethane	0.04782	0.0050	0.05	0	95.6	70	130	0.0486	1.62	20	
1,1-Dichloroethane	0.04822	0.0050	0.05	0	96.4	70	130	0.04704	2.48	20	
1,1-Dichloroethene	0.04525	0.0050	0.05	0	90.5	70	130	0.04583	1.27	20	
1,2-Dichloroethane	0.04803	0.0050	0.05	0	96.1	70	130	0.04964	3.30	20	
1,2-Dichloropropane	0.04651	0.0050	0.05	0	93	70	130	0.04561	1.95	20	
2-Butanone	0.04659	0.010	0.05	0	93.2	70	130	0.04875	4.53	20	
2-Hexanone	0.04416	0.010	0.05	0	88.3	70	130	0.04437	0.474	20	
4-Methyl-2-pentanone	0.04471	0.010	0.05	0	89.4	70	130	0.04491	0.446	20	
Acetone	0.05222	0.025	0.05	0	104	50	150	0.05825	10.9	20	
Benzene	0.04577	0.0050	0.05	0	91.5	70	130	0.04706	2.78	20	
Bromodichloromethane	0.04255	0.0050	0.05	0	85.1	70	130	0.04388	3.08	20	

CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15606

Sample ID **VLCSD120804A-2** SampType: **LCSD** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041208B**
Client ID: **ZZZZZ** Batch ID: **R15606** TestNo: **SW5035/8260** Analysis Date: **12/8/2004** SeqNo: **320111**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	0.04786	0.0050	0.05	0	95.7	70	130	0.04745	0.860	20	
Bromomethane	0.03691	0.010	0.05	0	73.8	70	130	0.03668	0.625	20	
Carbon disulfide	0.0626	0.0050	0.05	0	125	70	130	0.06115	2.34	20	
Carbon tetrachloride	0.04784	0.0050	0.05	0	95.7	70	130	0.04788	0.0836	20	
Chlorobenzene	0.04848	0.0050	0.05	0	97	70	130	0.04764	1.75	20	
Chloroethane	0.04874	0.010	0.05	0	97.5	70	130	0.04616	5.44	20	
Chloroform	0.05087	0.0050	0.05	0	102	70	130	0.04913	3.48	20	
Chloromethane	0.03826	0.010	0.05	0	76.5	70	130	0.03657	4.52	20	
cis-1,2-Dichloroethene	0.04804	0.0050	0.05	0	96.1	70	130	0.04949	2.97	20	
cis-1,3-Dichloropropene	0.04613	0.0050	0.05	0	92.3	70	130	0.04648	0.756	20	
Dibromochloromethane	0.04855	0.0050	0.05	0	97.1	70	130	0.04848	0.144	20	
Ethylbenzene	0.04731	0.0050	0.05	0	94.6	70	130	0.04738	0.148	20	
Methyl tert-butyl ether	0.04821	0.0050	0.05	0	96.4	50	150	0.04914	1.91	20	
Methylene chloride	0.04605	0.010	0.05	0.00436	83.4	70	130	0.04532	1.60	20	
Styrene	0.04678	0.0050	0.05	0	93.6	70	130	0.045	3.88	20	
Tetrachloroethene	0.04885	0.0050	0.05	0	97.7	70	130	0.05087	4.05	20	
Toluene	0.04734	0.0050	0.05	0	94.7	70	130	0.04651	1.77	20	
trans-1,2-Dichloroethene	0.04728	0.0050	0.05	0	94.6	70	130	0.04986	5.31	20	
trans-1,3-Dichloropropene	0.05236	0.0050	0.05	0	105	70	130	0.05239	0.0573	20	
Trichloroethene	0.04631	0.0050	0.05	0	92.6	70	130	0.04827	4.14	20	
Vinyl chloride	0.04695	0.0050	0.05	0	93.9	70	130	0.04699	0.0852	20	
Xylenes, Total	0.1471	0.010	0.15	0	98.1	70	130	0.1462	0.586	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15479

Sample ID	MBLK2	SampType:	MBLK	TestCode:	PMOIST	Units:	wt%	Prep Date:	12/2/2004	Run ID:	BALANCE_041202B
Client ID:	ZZZZZ	Batch ID:	R15479	TestNo:	D2974			Analysis Date:	12/3/2004	SeqNo:	317464

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	ND	0.01000									*

Sample ID	LCS-S2	SampType:	LCS	TestCode:	PMOIST	Units:	wt%	Prep Date:	12/2/2004	Run ID:	BALANCE_041202B
Client ID:	ZZZZZ	Batch ID:	R15479	TestNo:	D2974			Analysis Date:	12/3/2004	SeqNo:	317465

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	4.67	0.01000	5	0	93.4	80	120	0	0		*

Sample ID	LCS-W2	SampType:	LCS	TestCode:	PMOIST	Units:	wt%	Prep Date:	12/2/2004	Run ID:	BALANCE_041202B
Client ID:	ZZZZZ	Batch ID:	R15479	TestNo:	D2974			Analysis Date:	12/3/2004	SeqNo:	317466

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	99.82	0.01000	99.8	0	100	80	120	0	0		*

Sample ID	0412059-002B DUP	SampType:	DUP	TestCode:	PMOIST	Units:	wt%	Prep Date:	12/2/2004	Run ID:	BALANCE_041202B
Client ID:	WSS-SB52-002	Batch ID:	R15479	TestNo:	D2974			Analysis Date:	12/3/2004	SeqNo:	317487

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	16.19	0.01000	0	0	0	0	0	14.85	8.63	20	*

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CLIENT: Burns & McDonnell
Work Order: 0412059
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15496

Sample ID	**MBLK**	SampType:	**MBLK**	TestCode:	**PMOIST**	Units:	**wt%**	Prep Date:	**12/3/2004**	Run ID:	**BALANCE_041203A**
Client ID:	**ZZZZZ**	Batch ID:	**R15496**	TestNo:	**D2974**			Analysis Date:	**12/4/2004**	SeqNo:	**317745**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	ND	0.01000									*

Sample ID	**LCS-S**	SampType:	**LCS**	TestCode:	**PMOIST**	Units:	**wt%**	Prep Date:	**12/3/2004**	Run ID:	**BALANCE_041203A**
Client ID:	**ZZZZZ**	Batch ID:	**R15496**	TestNo:	**D2974**			Analysis Date:	**12/4/2004**	SeqNo:	**317746**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	4.46	0.01000	5	0	89.2	80	120	0	0		*

Sample ID	**LCS-W**	SampType:	**LCS**	TestCode:	**PMOIST**	Units:	**wt%**	Prep Date:	**12/3/2004**	Run ID:	**BALANCE_041203A**
Client ID:	**ZZZZZ**	Batch ID:	**R15496**	TestNo:	**D2974**			Analysis Date:	**12/4/2004**	SeqNo:	**317747**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	99.8	0.01000	99.8	0	100	80	120	0	0		*

Sample ID	**0411503-005B DUP**	SampType:	**DUP**	TestCode:	**PMOIST**	Units:	**wt%**	Prep Date:	**12/3/2004**	Run ID:	**BALANCE_041203A**
Client ID:	**ZZZZZ**	Batch ID:	**R15496**	TestNo:	**D2974**			Analysis Date:	**12/4/2004**	SeqNo:	**317767**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	17.98	0.01000	0	0	0	0	0	17.7	1.57	20	*

Qualifiers:
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STAT Analysis Corporation
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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

December 15, 2004

Burns & McDonnell
2601 W. 22nd Street
OakBrook, IL 60523-1229
Telephone: (312) 563-0371
Fax: (630) 990-0301

RE: 32088, Willow Street Station- General Iron STAT Project No: 0412085

Dear Diane Saftic:

STAT Analysis received 6 samples for the referenced project on 12/3/2004. The analytical results are presented in the following report.

This report is revised to reflect changes made after the initial report was issued.

All analyses were performed in accordance with the requirements of 35 IAC part 186 (Accreditation #100445). Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Craig Chawla
Project Manager

Client: Burns & McDonnell
Project: 32088, Willow Street Station- General Iron
Lab Order: 0412085

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0412085-001A	WSS-SB53-001	8-10'	12/3/2004 8:05:00 AM	12/3/2004
0412085-001B	WSS-SB53-001	8-10'	12/3/2004 8:05:00 AM	12/3/2004
0412085-002A	WSS-SB53-002	14-16'	12/3/2004 8:20:00 AM	12/3/2004
0412085-002B	WSS-SB53-002	14-16'	12/3/2004 8:20:00 AM	12/3/2004
0412085-003A	WSS-SB53-003	18-20'	12/3/2004 8:35:00 AM	12/3/2004
0412085-003B	WSS-SB53-003	18-20'	12/3/2004 8:35:00 AM	12/3/2004
0412085-004A	TB05			12/3/2004
0412085-005A	WSS-SB59-001	8-10'	12/3/2004 12:10:00 PM	12/3/2004
0412085-005B	WSS-SB59-001	8-10'	12/3/2004 12:10:00 PM	12/3/2004
0412085-006A	WSS-SB59-002	16-18'	12/3/2004 12:25:00 PM	12/3/2004
0412085-006B	WSS-SB59-002	16-18'	12/3/2004 12:25:00 PM	12/3/2004

STAT Analysis Corporation

Date: *December 15, 2004*

CLIENT: Burns & McDonnell
Project: 32088, Willow Street Station- General Iron
Lab Order: 0412085

CASE NARRATIVE

Methylene Chloride present in VOC soil samples is a possible lab artifact.

In VOC water LCSD analysis (analyzed 12/04/04), Carbon Disulfide had high recovery (131% recovery, QC limits 70-130) and Acetone had RPD greater than 20%.

Due to matrix interference, Sample WSSS-SB53-003 (0412085-003) had VOC surrogate Toluene-d8 out of control for both analysis and reanalysis (79%/81% recovery, QC Limits 85-110).

STAT Analysis Corporation
2201 West Campbell Park Drive Chicago, IL 60612-3547
Tel: (312) 563-0371 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB53-001
Lab Order:	0412085	**Tag Number:**	8-10'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/3/2004 8:05:00 AM
Lab ID:	0412085-001A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/4/2004**		Analyst: **PS**
Acetone	ND	0.036		mg/Kg-dry	1	12/9/2004
Benzene	0.0086	0.0073		mg/Kg-dry	1	12/9/2004
Bromodichloromethane	ND	0.0073		mg/Kg-dry	1	12/9/2004
Bromoform	ND	0.0073		mg/Kg-dry	1	12/9/2004
Bromomethane	ND	0.015		mg/Kg-dry	1	12/9/2004
2-Butanone	ND	0.015		mg/Kg-dry	1	12/9/2004
Carbon disulfide	ND	0.0073		mg/Kg-dry	1	12/9/2004
Carbon tetrachloride	ND	0.0073		mg/Kg-dry	1	12/9/2004
Chlorobenzene	ND	0.0073		mg/Kg-dry	1	12/9/2004
Chloroethane	ND	0.015		mg/Kg-dry	1	12/9/2004
Chloroform	ND	0.0073		mg/Kg-dry	1	12/9/2004
Chloromethane	ND	0.0073		mg/Kg-dry	1	12/9/2004
Dibromochloromethane	ND	0.0073		mg/Kg-dry	1	12/9/2004
1,1-Dichloroethane	ND	0.0073		mg/Kg-dry	1	12/9/2004
1,2-Dichloroethane	ND	0.0073		mg/Kg-dry	1	12/9/2004
1,1-Dichloroethene	ND	0.0073		mg/Kg-dry	1	12/9/2004
cis-1,2-Dichloroethene	ND	0.0073		mg/Kg-dry	1	12/9/2004
trans-1,2-Dichloroethene	ND	0.0073		mg/Kg-dry	1	12/9/2004
1,2-Dichloropropane	ND	0.0073		mg/Kg-dry	1	12/9/2004
cis-1,3-Dichloropropene	ND	0.0073		mg/Kg-dry	1	12/9/2004
trans-1,3-Dichloropropene	ND	0.0073		mg/Kg-dry	1	12/9/2004
Ethylbenzene	ND	0.0073		mg/Kg-dry	1	12/9/2004
2-Hexanone	ND	0.015		mg/Kg-dry	1	12/9/2004
4-Methyl-2-pentanone	ND	0.015		mg/Kg-dry	1	12/9/2004
Methylene chloride	0.018	0.015	B	mg/Kg-dry	1	12/9/2004
Methyl tert-butyl ether	ND	0.0073		mg/Kg-dry	1	12/9/2004
Styrene	ND	0.0073		mg/Kg-dry	1	12/9/2004
1,1,2,2-Tetrachloroethane	ND	0.0073		mg/Kg-dry	1	12/9/2004
Tetrachloroethene	ND	0.0073		mg/Kg-dry	1	12/9/2004
Toluene	ND	0.0073		mg/Kg-dry	1	12/9/2004
1,1,1-Trichloroethane	ND	0.0073		mg/Kg-dry	1	12/9/2004
1,1,2-Trichloroethane	ND	0.0073		mg/Kg-dry	1	12/9/2004
Trichloroethene	ND	0.0073		mg/Kg-dry	1	12/9/2004
Vinyl chloride	ND	0.0073		mg/Kg-dry	1	12/9/2004
Xylenes, Total	ND	0.015		mg/Kg-dry	1	12/9/2004

Qualifiers:
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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB53-001
Lab Order:	0412085	**Tag Number:**	8-10'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/3/2004 8:05:00 AM
Lab ID:	0412085-001B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/7/2004**		Analyst: **JF**
TPH (Gasoline)	ND	23	*	mg/Kg-dry	1	12/9/2004
TPH (Diesel)	400	23	*	mg/Kg-dry	1	12/9/2004
TPH (Oil)	670	23	*	mg/Kg-dry	1	12/9/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **VS**
Acenaphthene	2	0.31		mg/Kg-dry	10	12/9/2004
Acenaphthylene	1.6	0.31		mg/Kg-dry	10	12/9/2004
Anthracene	2.6	0.31		mg/Kg-dry	10	12/9/2004
Benz(a)anthracene	5.2	3.1		mg/Kg-dry	100	12/9/2004
Benzo(b)fluoranthene	1.4	0.31		mg/Kg-dry	10	12/9/2004
Benzo(k)fluoranthene	1.8	0.31		mg/Kg-dry	10	12/9/2004
Benzo(g,h,i)perylene	1	0.31		mg/Kg-dry	10	12/9/2004
Benzo(a)pyrene	4.8	3.1		mg/Kg-dry	100	12/9/2004
Chrysene	6.8	3.1		mg/Kg-dry	100	12/9/2004
Dibenz(a,h)anthracene	0.5	0.31		mg/Kg-dry	10	12/9/2004
Fluoranthene	7.8	3.1		mg/Kg-dry	100	12/9/2004
Fluorene	4	3.1		mg/Kg-dry	100	12/9/2004
Indeno(1,2,3-cd)pyrene	0.92	0.31		mg/Kg-dry	10	12/9/2004
Naphthalene	1.5	0.31		mg/Kg-dry	10	12/9/2004
Phenanthrene	14	3.1		mg/Kg-dry	100	12/9/2004
Pyrene	12	3.1		mg/Kg-dry	100	12/9/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.41		mg/Kg-dry	1	12/10/2004
Bis(2-chloroethyl)ether	ND	0.41		mg/Kg-dry	1	12/10/2004
Bis(2-ethylhexyl)phthalate	ND	0.41		mg/Kg-dry	1	12/10/2004
4-Bromophenyl phenyl ether	ND	0.41		mg/Kg-dry	1	12/10/2004
Butyl benzyl phthalate	ND	0.41		mg/Kg-dry	1	12/10/2004
Carbazole	ND	0.41		mg/Kg-dry	1	12/10/2004
4-Chloro-3-methylphenol	ND	0.41		mg/Kg-dry	1	12/10/2004
4-Chloroaniline	ND	0.41		mg/Kg-dry	1	12/10/2004
2-Chloronaphthalene	ND	0.41		mg/Kg-dry	1	12/10/2004
2-Chlorophenol	ND	0.41		mg/Kg-dry	1	12/10/2004
4-Chlorophenyl phenyl ether	ND	0.41		mg/Kg-dry	1	12/10/2004
Dibenzofuran	ND	0.41		mg/Kg-dry	1	12/10/2004
1,2-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	12/10/2004
1,3-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	12/10/2004
1,4-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	12/10/2004
3,3´-Dichlorobenzidine	ND	0.82		mg/Kg-dry	1	12/10/2004

Qualifiers:
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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB53-001
Lab Order:	0412085	**Tag Number:**	8-10'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/3/2004 8:05:00 AM
Lab ID:	0412085-001B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.41		mg/Kg-dry	1	12/10/2004
Diethyl phthalate	ND	0.41		mg/Kg-dry	1	12/10/2004
Dimethyl phthalate	ND	0.41		mg/Kg-dry	1	12/10/2004
Di-n-butyl phthalate	ND	0.41		mg/Kg-dry	1	12/10/2004
2,4-Dimethylphenol	ND	0.41		mg/Kg-dry	1	12/10/2004
4,6-Dinitro-2-methylphenol	ND	2		mg/Kg-dry	1	12/10/2004
2,4-Dinitrophenol	ND	2		mg/Kg-dry	1	12/10/2004
2,4-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/10/2004
2,6-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/10/2004
Di-n-octyl phthalate	ND	0.41		mg/Kg-dry	1	12/10/2004
Hexachlorobenzene	ND	0.41		mg/Kg-dry	1	12/10/2004
Hexachlorobutadiene	ND	0.41		mg/Kg-dry	1	12/10/2004
Hexachlorocyclopentadiene	ND	0.41		mg/Kg-dry	1	12/10/2004
Hexachloroethane	ND	0.41		mg/Kg-dry	1	12/10/2004
Isophorone	ND	0.41		mg/Kg-dry	1	12/10/2004
2-Methylnaphthalene	ND	0.41		mg/Kg-dry	1	12/10/2004
2-Methylphenol	ND	0.41		mg/Kg-dry	1	12/10/2004
4-Methylphenol	ND	0.41		mg/Kg-dry	1	12/10/2004
2-Nitroaniline	ND	2		mg/Kg-dry	1	12/10/2004
3-Nitroaniline	ND	2		mg/Kg-dry	1	12/10/2004
4-Nitroaniline	ND	2		mg/Kg-dry	1	12/10/2004
Nitrobenzene	ND	0.21		mg/Kg-dry	1	12/10/2004
2-Nitrophenol	ND	0.41		mg/Kg-dry	1	12/10/2004
4-Nitrophenol	ND	2		mg/Kg-dry	1	12/10/2004
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	12/10/2004
N-Nitrosodiphenylamine	ND	0.41		mg/Kg-dry	1	12/10/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.41		mg/Kg-dry	1	12/10/2004
Pentachlorophenol	ND	2		mg/Kg-dry	1	12/10/2004
Phenol	ND	0.41		mg/Kg-dry	1	12/10/2004
1,2,4-Trichlorobenzene	ND	0.41		mg/Kg-dry	1	12/10/2004
2,4,5-Trichlorophenol	ND	0.82		mg/Kg-dry	1	12/10/2004
2,4,6-Trichlorophenol	ND	0.41		mg/Kg-dry	1	12/10/2004
Percent Moisture	**D2974**			Prep Date: **12/6/2004**		Analyst: **ASM**
Percent Moisture	20.98	0.01	*	wt%	1	12/7/2004

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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB53-002
Lab Order:	0412085	**Tag Number:**	14-16'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/3/2004 8:20:00 AM
Lab ID:	0412085-002A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/4/2004**		Analyst: **PS**
Acetone	0.1	0.048		mg/Kg-dry	1	12/9/2004
Benzene	0.21	0.0095		mg/Kg-dry	1	12/9/2004
Bromodichloromethane	ND	0.0095		mg/Kg-dry	1	12/9/2004
Bromoform	ND	0.0095		mg/Kg-dry	1	12/9/2004
Bromomethane	ND	0.019		mg/Kg-dry	1	12/9/2004
2-Butanone	0.023	0.019		mg/Kg-dry	1	12/9/2004
Carbon disulfide	ND	0.0095		mg/Kg-dry	1	12/9/2004
Carbon tetrachloride	ND	0.0095		mg/Kg-dry	1	12/9/2004
Chlorobenzene	ND	0.0095		mg/Kg-dry	1	12/9/2004
Chloroethane	ND	0.019		mg/Kg-dry	1	12/9/2004
Chloroform	ND	0.0095		mg/Kg-dry	1	12/9/2004
Chloromethane	ND	0.0095		mg/Kg-dry	1	12/9/2004
Dibromochloromethane	ND	0.0095		mg/Kg-dry	1	12/9/2004
1,1-Dichloroethane	ND	0.0095		mg/Kg-dry	1	12/9/2004
1,2-Dichloroethane	ND	0.0095		mg/Kg-dry	1	12/9/2004
1,1-Dichloroethene	ND	0.0095		mg/Kg-dry	1	12/9/2004
cis-1,2-Dichloroethene	ND	0.0095		mg/Kg-dry	1	12/9/2004
trans-1,2-Dichloroethene	ND	0.0095		mg/Kg-dry	1	12/9/2004
1,2-Dichloropropane	ND	0.0095		mg/Kg-dry	1	12/9/2004
cis-1,3-Dichloropropene	ND	0.0095		mg/Kg-dry	1	12/9/2004
trans-1,3-Dichloropropene	ND	0.0095		mg/Kg-dry	1	12/9/2004
Ethylbenzene	1.2	0.4		mg/Kg-dry	50	12/9/2004
2-Hexanone	ND	0.019		mg/Kg-dry	1	12/9/2004
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	12/9/2004
Methylene chloride	0.035	0.019	B	mg/Kg-dry	1	12/9/2004
Methyl tert-butyl ether	ND	0.0095		mg/Kg-dry	1	12/9/2004
Styrene	ND	0.0095		mg/Kg-dry	1	12/9/2004
1,1,2,2-Tetrachloroethane	ND	0.0095		mg/Kg-dry	1	12/9/2004
Tetrachloroethene	ND	0.0095		mg/Kg-dry	1	12/9/2004
Toluene	0.013	0.0095		mg/Kg-dry	1	12/9/2004
1,1,1-Trichloroethane	ND	0.0095		mg/Kg-dry	1	12/9/2004
1,1,2-Trichloroethane	ND	0.0095		mg/Kg-dry	1	12/9/2004
Trichloroethene	ND	0.0095		mg/Kg-dry	1	12/9/2004
Vinyl chloride	ND	0.0095		mg/Kg-dry	1	12/9/2004
Xylenes, Total	1.7	0.79		mg/Kg-dry	50	12/9/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB53-002
Lab Order:	0412085	**Tag Number:**	14-16'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/3/2004 8:20:00 AM
Lab ID:	0412085-002B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/7/2004**		Analyst: **JF**
TPH (Gasoline)	ND	25	*	mg/Kg-dry	1	12/9/2004
TPH (Diesel)	1000	25	*	mg/Kg-dry	1	12/9/2004
TPH (Oil)	890	25	*	mg/Kg-dry	1	12/9/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **VS**
Acenaphthene	16	3.2		mg/Kg-dry	100	12/9/2004
Acenaphthylene	2.4	0.32		mg/Kg-dry	10	12/9/2004
Anthracene	16	3.2		mg/Kg-dry	100	12/9/2004
Benz(a)anthracene	14	3.2		mg/Kg-dry	100	12/9/2004
Benzo(b)fluoranthene	6.4	3.2		mg/Kg-dry	100	12/9/2004
Benzo(k)fluoranthene	6.5	3.2		mg/Kg-dry	100	12/9/2004
Benzo(g,h,i)perylene	1.6	0.32		mg/Kg-dry	10	12/9/2004
Benzo(a)pyrene	11	3.2		mg/Kg-dry	100	12/9/2004
Chrysene	15	3.2		mg/Kg-dry	100	12/9/2004
Dibenz(a,h)anthracene	1.2	0.32		mg/Kg-dry	10	12/9/2004
Fluoranthene	24	3.2		mg/Kg-dry	100	12/9/2004
Fluorene	19	3.2		mg/Kg-dry	100	12/9/2004
Indeno(1,2,3-cd)pyrene	1.8	0.32		mg/Kg-dry	10	12/9/2004
Naphthalene	41	32		mg/Kg-dry	1000	12/10/2004
Phenanthrene	57	32		mg/Kg-dry	1000	12/10/2004
Pyrene	27	3.2		mg/Kg-dry	100	12/9/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.43		mg/Kg-dry	1	12/10/2004
Bis(2-chloroethyl)ether	ND	0.43		mg/Kg-dry	1	12/10/2004
Bis(2-ethylhexyl)phthalate	ND	0.43		mg/Kg-dry	1	12/10/2004
4-Bromophenyl phenyl ether	ND	0.43		mg/Kg-dry	1	12/10/2004
Butyl benzyl phthalate	ND	0.43		mg/Kg-dry	1	12/10/2004
Carbazole	5.1	0.43		mg/Kg-dry	1	12/10/2004
4-Chloro-3-methylphenol	ND	0.43		mg/Kg-dry	1	12/10/2004
4-Chloroaniline	ND	0.43		mg/Kg-dry	1	12/10/2004
2-Chloronaphthalene	ND	0.43		mg/Kg-dry	1	12/10/2004
2-Chlorophenol	ND	0.43		mg/Kg-dry	1	12/10/2004
4-Chlorophenyl phenyl ether	ND	0.43		mg/Kg-dry	1	12/10/2004
Dibenzofuran	4.9	0.43		mg/Kg-dry	1	12/10/2004
1,2-Dichlorobenzene	ND	0.43		mg/Kg-dry	1	12/10/2004
1,3-Dichlorobenzene	ND	0.43		mg/Kg-dry	1	12/10/2004
1,4-Dichlorobenzene	ND	0.43		mg/Kg-dry	1	12/10/2004
3,3´-Dichlorobenzidine	ND	0.85		mg/Kg-dry	1	12/10/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB53-002
Lab Order:	0412085	**Tag Number:**	14-16'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/3/2004 8:20:00 AM
Lab ID:	0412085-002B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.43		mg/Kg-dry	1	12/10/2004
Diethyl phthalate	ND	0.43		mg/Kg-dry	1	12/10/2004
Dimethyl phthalate	ND	0.43		mg/Kg-dry	1	12/10/2004
Di-n-butyl phthalate	ND	0.43		mg/Kg-dry	1	12/10/2004
2,4-Dimethylphenol	ND	0.43		mg/Kg-dry	1	12/10/2004
4,6-Dinitro-2-methylphenol	ND	2.1		mg/Kg-dry	1	12/10/2004
2,4-Dinitrophenol	ND	2.1		mg/Kg-dry	1	12/10/2004
2,4-Dinitrotoluene	ND	0.22		mg/Kg-dry	1	12/10/2004
2,6-Dinitrotoluene	ND	0.22		mg/Kg-dry	1	12/10/2004
Di-n-octyl phthalate	ND	0.43		mg/Kg-dry	1	12/10/2004
Hexachlorobenzene	ND	0.43		mg/Kg-dry	1	12/10/2004
Hexachlorobutadiene	ND	0.43		mg/Kg-dry	1	12/10/2004
Hexachlorocyclopentadiene	ND	0.43		mg/Kg-dry	1	12/10/2004
Hexachloroethane	ND	0.43		mg/Kg-dry	1	12/10/2004
Isophorone	ND	0.43		mg/Kg-dry	1	12/10/2004
2-Methylnaphthalene	37	4.3		mg/Kg-dry	10	12/10/2004
2-Methylphenol	ND	0.43		mg/Kg-dry	1	12/10/2004
4-Methylphenol	ND	0.43		mg/Kg-dry	1	12/10/2004
2-Nitroaniline	ND	2.1		mg/Kg-dry	1	12/10/2004
3-Nitroaniline	ND	2.1		mg/Kg-dry	1	12/10/2004
4-Nitroaniline	ND	2.1		mg/Kg-dry	1	12/10/2004
Nitrobenzene	ND	0.22		mg/Kg-dry	1	12/10/2004
2-Nitrophenol	ND	0.43		mg/Kg-dry	1	12/10/2004
4-Nitrophenol	ND	2.1		mg/Kg-dry	1	12/10/2004
N-Nitrosodi-n-propylamine	ND	0.22		mg/Kg-dry	1	12/10/2004
N-Nitrosodiphenylamine	ND	0.43		mg/Kg-dry	1	12/10/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.43		mg/Kg-dry	1	12/10/2004
Pentachlorophenol	ND	2.1		mg/Kg-dry	1	12/10/2004
Phenol	ND	0.43		mg/Kg-dry	1	12/10/2004
1,2,4-Trichlorobenzene	ND	0.43		mg/Kg-dry	1	12/10/2004
2,4,5-Trichlorophenol	ND	0.85		mg/Kg-dry	1	12/10/2004
2,4,6-Trichlorophenol	ND	0.43		mg/Kg-dry	1	12/10/2004
Percent Moisture	**D2974**			Prep Date: **12/6/2004**		Analyst: **ASM**
Percent Moisture	24.30	0.01	*	wt%	1	12/7/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB53-003
Lab Order:	0412085	**Tag Number:**	18-20'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/3/2004 8:35:00 AM
Lab ID:	0412085-003A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/4/2004**		Analyst: **PS**
Acetone	ND UJ	0.031		mg/Kg-dry	1	12/9/2004
Benzene	ND	0.0062		mg/Kg-dry	1	12/9/2004
Bromodichloromethane	ND	0.0062		mg/Kg-dry	1	12/9/2004
Bromoform	ND	0.0062		mg/Kg-dry	1	12/9/2004
Bromomethane	ND	0.012		mg/Kg-dry	1	12/9/2004
2-Butanone	ND	0.012		mg/Kg-dry	1	12/9/2004
Carbon disulfide	ND	0.0062		mg/Kg-dry	1	12/9/2004
Carbon tetrachloride	ND	0.0062		mg/Kg-dry	1	12/9/2004
Chlorobenzene	ND	0.0062		mg/Kg-dry	1	12/9/2004
Chloroethane	ND	0.012		mg/Kg-dry	1	12/9/2004
Chloroform	ND	0.0062		mg/Kg-dry	1	12/9/2004
Chloromethane	ND	0.0062		mg/Kg-dry	1	12/9/2004
Dibromochloromethane	ND	0.0062		mg/Kg-dry	1	12/9/2004
1,1-Dichloroethane	ND	0.0062		mg/Kg-dry	1	12/9/2004
1,2-Dichloroethane	ND	0.0062		mg/Kg-dry	1	12/9/2004
1,1-Dichloroethene	ND	0.0062		mg/Kg-dry	1	12/9/2004
cis-1,2-Dichloroethene	ND	0.0062		mg/Kg-dry	1	12/9/2004
trans-1,2-Dichloroethene	ND	0.0062		mg/Kg-dry	1	12/9/2004
1,2-Dichloropropane	ND	0.0062		mg/Kg-dry	1	12/9/2004
cis-1,3-Dichloropropene	ND	0.0062		mg/Kg-dry	1	12/9/2004
trans-1,3-Dichloropropene	ND	0.0062		mg/Kg-dry	1	12/9/2004
Ethylbenzene	ND	0.0062		mg/Kg-dry	1	12/9/2004
2-Hexanone	ND	0.012		mg/Kg-dry	1	12/9/2004
4-Methyl-2-pentanone	ND	0.012		mg/Kg-dry	1	12/9/2004
Methylene chloride	0.026 J	0.012	B	mg/Kg-dry	1	12/9/2004
Methyl tert-butyl ether	ND UJ	0.0062		mg/Kg-dry	1	12/9/2004
Styrene	ND	0.0062		mg/Kg-dry	1	12/9/2004
1,1,2,2-Tetrachloroethane	ND	0.0062		mg/Kg-dry	1	12/9/2004
Tetrachloroethene	ND	0.0062		mg/Kg-dry	1	12/9/2004
Toluene	ND	0.0062		mg/Kg-dry	1	12/9/2004
1,1,1-Trichloroethane	ND	0.0062		mg/Kg-dry	1	12/9/2004
1,1,2-Trichloroethane	ND	0.0062		mg/Kg-dry	1	12/9/2004
Trichloroethene	ND	0.0062		mg/Kg-dry	1	12/9/2004
Vinyl chloride	ND	0.0062		mg/Kg-dry	1	12/9/2004
Xylenes, Total	ND	0.012		mg/Kg-dry	1	12/9/2004

J = estimated value, poor surrogate recovery. SFA
UJ = estimated non-detect value; poor surrogate recovery. SFA

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB53-003
Lab Order:	0412085	**Tag Number:**	18-20'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/3/2004 8:35:00 AM
Lab ID:	0412085-003B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/7/2004**		Analyst: **JF**
TPH (Gasoline)	ND	22	*	mg/Kg-dry	1	12/9/2004
TPH (Diesel)	ND	22	*	mg/Kg-dry	1	12/9/2004
TPH (Oil)	ND	22	*	mg/Kg-dry	1	12/9/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **VS**
Acenaphthene	0.11	0.03		mg/Kg-dry	1	12/8/2004
Acenaphthylene	0.046	0.03		mg/Kg-dry	1	12/8/2004
Anthracene	0.12	0.03		mg/Kg-dry	1	12/8/2004
Benz(a)anthracene	0.12	0.03		mg/Kg-dry	1	12/8/2004
Benzo(b)fluoranthene	0.054	0.03		mg/Kg-dry	1	12/8/2004
Benzo(k)fluoranthene	0.076	0.03		mg/Kg-dry	1	12/8/2004
Benzo(g,h,i)perylene	0.042	0.03		mg/Kg-dry	1	12/8/2004
Benzo(a)pyrene	0.099	0.03		mg/Kg-dry	1	12/8/2004
Chrysene	0.14	0.03		mg/Kg-dry	1	12/8/2004
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	12/8/2004
Fluoranthene	0.22	0.03		mg/Kg-dry	1	12/8/2004
Fluorene	0.13	0.03		mg/Kg-dry	1	12/8/2004
Indeno(1,2,3-cd)pyrene	0.031	0.03		mg/Kg-dry	1	12/8/2004
Naphthalene	0.24	0.03		mg/Kg-dry	1	12/8/2004
Phenanthrene	0.48	0.3		mg/Kg-dry	10	12/9/2004
Pyrene	0.27	0.03		mg/Kg-dry	1	12/8/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.4		mg/Kg-dry	1	12/9/2004
Bis(2-chloroethyl)ether	ND	0.4		mg/Kg-dry	1	12/9/2004
Bis(2-ethylhexyl)phthalate	ND	0.4		mg/Kg-dry	1	12/9/2004
4-Bromophenyl phenyl ether	ND	0.4		mg/Kg-dry	1	12/9/2004
Butyl benzyl phthalate	ND	0.4		mg/Kg-dry	1	12/9/2004
Carbazole	ND	0.4		mg/Kg-dry	1	12/9/2004
4-Chloro-3-methylphenol	ND	0.4		mg/Kg-dry	1	12/9/2004
4-Chloroaniline	ND	0.4		mg/Kg-dry	1	12/9/2004
2-Chloronaphthalene	ND	0.4		mg/Kg-dry	1	12/9/2004
2-Chlorophenol	ND	0.4		mg/Kg-dry	1	12/9/2004
4-Chlorophenyl phenyl ether	ND	0.4		mg/Kg-dry	1	12/9/2004
Dibenzofuran	ND	0.4		mg/Kg-dry	1	12/9/2004
1,2-Dichlorobenzene	ND	0.4		mg/Kg-dry	1	12/9/2004
1,3-Dichlorobenzene	ND	0.4		mg/Kg-dry	1	12/9/2004
1,4-Dichlorobenzene	ND	0.4		mg/Kg-dry	1	12/9/2004
3,3´-Dichlorobenzidine	ND	0.8		mg/Kg-dry	1	12/9/2004

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Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB53-003
Lab Order:	0412085	**Tag Number:**	18-20'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/3/2004 8:35:00 AM
Lab ID:	0412085-003B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.4		mg/Kg-dry	1	12/9/2004
Diethyl phthalate	ND	0.4		mg/Kg-dry	1	12/9/2004
Dimethyl phthalate	ND	0.4		mg/Kg-dry	1	12/9/2004
Di-n-butyl phthalate	ND	0.4		mg/Kg-dry	1	12/9/2004
2,4-Dimethylphenol	ND	0.4		mg/Kg-dry	1	12/9/2004
4,6-Dinitro-2-methylphenol	ND	1.9		mg/Kg-dry	1	12/9/2004
2,4-Dinitrophenol	ND	1.9		mg/Kg-dry	1	12/9/2004
2,4-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/9/2004
2,6-Dinitrotoluene	ND	0.21		mg/Kg-dry	1	12/9/2004
Di-n-octyl phthalate	ND	0.4		mg/Kg-dry	1	12/9/2004
Hexachlorobenzene	ND	0.4		mg/Kg-dry	1	12/9/2004
Hexachlorobutadiene	ND	0.4		mg/Kg-dry	1	12/9/2004
Hexachlorocyclopentadiene	ND	0.4		mg/Kg-dry	1	12/9/2004
Hexachloroethane	ND	0.4		mg/Kg-dry	1	12/9/2004
Isophorone	ND	0.4		mg/Kg-dry	1	12/9/2004
2-Methylnaphthalene	ND	0.4		mg/Kg-dry	1	12/9/2004
2-Methylphenol	ND	0.4		mg/Kg-dry	1	12/9/2004
4-Methylphenol	ND	0.4		mg/Kg-dry	1	12/9/2004
2-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/9/2004
3-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/9/2004
4-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/9/2004
Nitrobenzene	ND	0.21		mg/Kg-dry	1	12/9/2004
2-Nitrophenol	ND	0.4		mg/Kg-dry	1	12/9/2004
4-Nitrophenol	ND	1.9		mg/Kg-dry	1	12/9/2004
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	12/9/2004
N-Nitrosodiphenylamine	ND	0.4		mg/Kg-dry	1	12/9/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.4		mg/Kg-dry	1	12/9/2004
Pentachlorophenol	ND	1.9		mg/Kg-dry	1	12/9/2004
Phenol	ND	0.4		mg/Kg-dry	1	12/9/2004
1,2,4-Trichlorobenzene	ND	0.4		mg/Kg-dry	1	12/9/2004
2,4,5-Trichlorophenol	ND	0.8		mg/Kg-dry	1	12/9/2004
2,4,6-Trichlorophenol	ND	0.4		mg/Kg-dry	1	12/9/2004
Percent Moisture	**D2974**			Prep Date: **12/6/2004**		Analyst: **ASM**
Percent Moisture	18.63	0.01	*	wt%	1	12/7/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB59-001
Lab Order:	0412085	**Tag Number:**	8-10'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/3/2004 12:10:00 PM
Lab ID:	0412085-005A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/4/2004**		Analyst: **PS**
Acetone	ND	0.028		mg/Kg-dry	1	12/9/2004
Benzene	0.031	0.0055		mg/Kg-dry	1	12/9/2004
Bromodichloromethane	ND	0.0055		mg/Kg-dry	1	12/9/2004
Bromoform	ND	0.0055		mg/Kg-dry	1	12/9/2004
Bromomethane	ND	0.011		mg/Kg-dry	1	12/9/2004
2-Butanone	ND	0.011		mg/Kg-dry	1	12/9/2004
Carbon disulfide	ND	0.0055		mg/Kg-dry	1	12/9/2004
Carbon tetrachloride	ND	0.0055		mg/Kg-dry	1	12/9/2004
Chlorobenzene	ND	0.0055		mg/Kg-dry	1	12/9/2004
Chloroethane	ND	0.011		mg/Kg-dry	1	12/9/2004
Chloroform	ND	0.0055		mg/Kg-dry	1	12/9/2004
Chloromethane	ND	0.0055		mg/Kg-dry	1	12/9/2004
Dibromochloromethane	ND	0.0055		mg/Kg-dry	1	12/9/2004
1,1-Dichloroethane	ND	0.0055		mg/Kg-dry	1	12/9/2004
1,2-Dichloroethane	ND	0.0055		mg/Kg-dry	1	12/9/2004
1,1-Dichloroethene	ND	0.0055		mg/Kg-dry	1	12/9/2004
cis-1,2-Dichloroethene	ND	0.0055		mg/Kg-dry	1	12/9/2004
trans-1,2-Dichloroethene	ND	0.0055		mg/Kg-dry	1	12/9/2004
1,2-Dichloropropane	ND	0.0055		mg/Kg-dry	1	12/9/2004
cis-1,3-Dichloropropene	ND	0.0055		mg/Kg-dry	1	12/9/2004
trans-1,3-Dichloropropene	ND	0.0055		mg/Kg-dry	1	12/9/2004
Ethylbenzene	0.071	0.0055		mg/Kg-dry	1	12/9/2004
2-Hexanone	ND	0.011		mg/Kg-dry	1	12/9/2004
4-Methyl-2-pentanone	ND	0.011		mg/Kg-dry	1	12/9/2004
Methylene chloride	0.017	0.011	B	mg/Kg-dry	1	12/9/2004
Methyl tert-butyl ether	ND	0.0055		mg/Kg-dry	1	12/9/2004
Styrene	ND	0.0055		mg/Kg-dry	1	12/9/2004
1,1,2,2-Tetrachloroethane	ND	0.0055		mg/Kg-dry	1	12/9/2004
Tetrachloroethene	ND	0.0055		mg/Kg-dry	1	12/9/2004
Toluene	ND	0.0055		mg/Kg-dry	1	12/9/2004
1,1,1-Trichloroethane	ND	0.0055		mg/Kg-dry	1	12/9/2004
1,1,2-Trichloroethane	ND	0.0055		mg/Kg-dry	1	12/9/2004
Trichloroethene	ND	0.0055		mg/Kg-dry	1	12/9/2004
Vinyl chloride	ND	0.0055		mg/Kg-dry	1	12/9/2004
Xylenes, Total	0.044	0.011		mg/Kg-dry	1	12/9/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB59-001
Lab Order:	0412085	**Tag Number:**	8-10'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/3/2004 12:10:00 PM
Lab ID:	0412085-005B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/7/2004**		Analyst: **JF**
TPH (Gasoline)	ND	23	*	mg/Kg-dry	1	12/9/2004
TPH (Diesel)	ND	23	*	mg/Kg-dry	1	12/9/2004
TPH (Oil)	25	23	*	mg/Kg-dry	1	12/9/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	12/9/2004
Acenaphthylene	ND	0.029		mg/Kg-dry	1	12/9/2004
Anthracene	ND	0.029		mg/Kg-dry	1	12/9/2004
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	12/9/2004
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	12/9/2004
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	12/9/2004
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	12/9/2004
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	12/9/2004
Chrysene	0.029	0.029		mg/Kg-dry	1	12/9/2004
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	12/9/2004
Fluoranthene	0.029	0.029		mg/Kg-dry	1	12/9/2004
Fluorene	ND	0.029		mg/Kg-dry	1	12/9/2004
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	12/9/2004
Naphthalene	0.087	0.029		mg/Kg-dry	1	12/9/2004
Phenanthrene	0.089	0.029		mg/Kg-dry	1	12/9/2004
Pyrene	0.05	0.029		mg/Kg-dry	1	12/9/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.39		mg/Kg-dry	1	12/10/2004
Bis(2-chloroethyl)ether	ND	0.39		mg/Kg-dry	1	12/10/2004
Bis(2-ethylhexyl)phthalate	ND	0.39		mg/Kg-dry	1	12/10/2004
4-Bromophenyl phenyl ether	ND	0.39		mg/Kg-dry	1	12/10/2004
Butyl benzyl phthalate	ND	0.39		mg/Kg-dry	1	12/10/2004
Carbazole	ND	0.39		mg/Kg-dry	1	12/10/2004
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	12/10/2004
4-Chloroaniline	ND	0.39		mg/Kg-dry	1	12/10/2004
2-Chloronaphthalene	ND	0.39		mg/Kg-dry	1	12/10/2004
2-Chlorophenol	ND	0.39		mg/Kg-dry	1	12/10/2004
4-Chlorophenyl phenyl ether	ND	0.39		mg/Kg-dry	1	12/10/2004
Dibenzofuran	ND	0.39		mg/Kg-dry	1	12/10/2004
1,2-Dichlorobenzene	ND	0.39		mg/Kg-dry	1	12/10/2004
1,3-Dichlorobenzene	ND	0.39		mg/Kg-dry	1	12/10/2004
1,4-Dichlorobenzene	ND	0.39		mg/Kg-dry	1	12/10/2004
3,3´-Dichlorobenzidine	ND	0.78		mg/Kg-dry	1	12/10/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB59-001
Lab Order:	0412085	**Tag Number:**	8-10'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/3/2004 12:10:00 PM
Lab ID:	0412085-005B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.39		mg/Kg-dry	1	12/10/2004
Diethyl phthalate	ND	0.39		mg/Kg-dry	1	12/10/2004
Dimethyl phthalate	ND	0.39		mg/Kg-dry	1	12/10/2004
Di-n-butyl phthalate	ND	0.39		mg/Kg-dry	1	12/10/2004
2,4-Dimethylphenol	ND	0.39		mg/Kg-dry	1	12/10/2004
4,6-Dinitro-2-methylphenol	ND	1.9		mg/Kg-dry	1	12/10/2004
2,4-Dinitrophenol	ND	1.9		mg/Kg-dry	1	12/10/2004
2,4-Dinitrotoluene	ND	0.2		mg/Kg-dry	1	12/10/2004
2,6-Dinitrotoluene	ND	0.2		mg/Kg-dry	1	12/10/2004
Di-n-octyl phthalate	ND	0.39		mg/Kg-dry	1	12/10/2004
Hexachlorobenzene	ND	0.39		mg/Kg-dry	1	12/10/2004
Hexachlorobutadiene	ND	0.39		mg/Kg-dry	1	12/10/2004
Hexachlorocyclopentadiene	ND	0.39		mg/Kg-dry	1	12/10/2004
Hexachloroethane	ND	0.39		mg/Kg-dry	1	12/10/2004
Isophorone	ND	0.39		mg/Kg-dry	1	12/10/2004
2-Methylnaphthalene	ND	0.39		mg/Kg-dry	1	12/10/2004
2-Methylphenol	ND	0.39		mg/Kg-dry	1	12/10/2004
4-Methylphenol	ND	0.39		mg/Kg-dry	1	12/10/2004
2-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/10/2004
3-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/10/2004
4-Nitroaniline	ND	1.9		mg/Kg-dry	1	12/10/2004
Nitrobenzene	ND	0.2		mg/Kg-dry	1	12/10/2004
2-Nitrophenol	ND	0.39		mg/Kg-dry	1	12/10/2004
4-Nitrophenol	ND	1.9		mg/Kg-dry	1	12/10/2004
N-Nitrosodi-n-propylamine	ND	0.2		mg/Kg-dry	1	12/10/2004
N-Nitrosodiphenylamine	ND	0.39		mg/Kg-dry	1	12/10/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.39		mg/Kg-dry	1	12/10/2004
Pentachlorophenol	ND	1.9		mg/Kg-dry	1	12/10/2004
Phenol	ND	0.39		mg/Kg-dry	1	12/10/2004
1,2,4-Trichlorobenzene	ND	0.39		mg/Kg-dry	1	12/10/2004
2,4,5-Trichlorophenol	ND	0.78		mg/Kg-dry	1	12/10/2004
2,4,6-Trichlorophenol	ND	0.39		mg/Kg-dry	1	12/10/2004
Percent Moisture	**D2974**			Prep Date: **12/6/2004**		Analyst: **ASM**
Percent Moisture	15.67	0.01	*	wt%	1	12/7/2004

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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB59-002
Lab Order:	0412085	**Tag Number:**	16-18'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/3/2004 12:25:00 PM
Lab ID:	0412085-006A	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **12/4/2004**		Analyst: **PS**
Acetone	ND	0.033		mg/Kg-dry	1	12/9/2004
Benzene	ND	0.0067		mg/Kg-dry	1	12/9/2004
Bromodichloromethane	ND	0.0067		mg/Kg-dry	1	12/9/2004
Bromoform	ND	0.0067		mg/Kg-dry	1	12/9/2004
Bromomethane	ND	0.013		mg/Kg-dry	1	12/9/2004
2-Butanone	ND	0.013		mg/Kg-dry	1	12/9/2004
Carbon disulfide	ND	0.0067		mg/Kg-dry	1	12/9/2004
Carbon tetrachloride	ND	0.0067		mg/Kg-dry	1	12/9/2004
Chlorobenzene	ND	0.0067		mg/Kg-dry	1	12/9/2004
Chloroethane	ND	0.013		mg/Kg-dry	1	12/9/2004
Chloroform	ND	0.0067		mg/Kg-dry	1	12/9/2004
Chloromethane	ND	0.0067		mg/Kg-dry	1	12/9/2004
Dibromochloromethane	ND	0.0067		mg/Kg-dry	1	12/9/2004
1,1-Dichloroethane	ND	0.0067		mg/Kg-dry	1	12/9/2004
1,2-Dichloroethane	ND	0.0067		mg/Kg-dry	1	12/9/2004
1,1-Dichloroethene	ND	0.0067		mg/Kg-dry	1	12/9/2004
cis-1,2-Dichloroethene	ND	0.0067		mg/Kg-dry	1	12/9/2004
trans-1,2-Dichloroethene	ND	0.0067		mg/Kg-dry	1	12/9/2004
1,2-Dichloropropane	ND	0.0067		mg/Kg-dry	1	12/9/2004
cis-1,3-Dichloropropene	ND	0.0067		mg/Kg-dry	1	12/9/2004
trans-1,3-Dichloropropene	ND	0.0067		mg/Kg-dry	1	12/9/2004
Ethylbenzene	ND	0.0067		mg/Kg-dry	1	12/9/2004
2-Hexanone	ND	0.013		mg/Kg-dry	1	12/9/2004
4-Methyl-2-pentanone	ND	0.013		mg/Kg-dry	1	12/9/2004
Methylene chloride	0.016	0.013	B	mg/Kg-dry	1	12/9/2004
Methyl tert-butyl ether	ND	0.0067		mg/Kg-dry	1	12/9/2004
Styrene	ND	0.0067		mg/Kg-dry	1	12/9/2004
1,1,2,2-Tetrachloroethane	ND	0.0067		mg/Kg-dry	1	12/9/2004
Tetrachloroethene	ND	0.0067		mg/Kg-dry	1	12/9/2004
Toluene	ND	0.0067		mg/Kg-dry	1	12/9/2004
1,1,1-Trichloroethane	ND	0.0067		mg/Kg-dry	1	12/9/2004
1,1,2-Trichloroethane	ND	0.0067		mg/Kg-dry	1	12/9/2004
Trichloroethene	ND	0.0067		mg/Kg-dry	1	12/9/2004
Vinyl chloride	ND	0.0067		mg/Kg-dry	1	12/9/2004
Xylenes, Total	ND	0.013		mg/Kg-dry	1	12/9/2004

Qualifiers:
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Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB59-002
Lab Order:	0412085	**Tag Number:**	16-18'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/3/2004 12:25:00 PM
Lab ID:	0412085-006B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Total Petroleum Hydrocarbons	**SW8015M (SW3580A)**			Prep Date: **12/7/2004**		Analyst: **JF**
TPH (Gasoline)	ND	22	*	mg/Kg-dry	1	12/9/2004
TPH (Diesel)	ND	22	*	mg/Kg-dry	1	12/9/2004
TPH (Oil)	ND	22	*	mg/Kg-dry	1	12/9/2004
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	12/8/2004
Acenaphthylene	ND	0.028		mg/Kg-dry	1	12/8/2004
Anthracene	ND	0.028		mg/Kg-dry	1	12/8/2004
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	12/8/2004
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	12/8/2004
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	12/8/2004
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	12/8/2004
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	12/8/2004
Chrysene	ND	0.028		mg/Kg-dry	1	12/8/2004
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	12/8/2004
Fluoranthene	ND	0.028		mg/Kg-dry	1	12/8/2004
Fluorene	ND	0.028		mg/Kg-dry	1	12/8/2004
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	12/8/2004
Naphthalene	ND	0.028		mg/Kg-dry	1	12/8/2004
Phenanthrene	0.075	0.028		mg/Kg-dry	1	12/8/2004
Pyrene	ND	0.028		mg/Kg-dry	1	12/8/2004
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
Bis(2-chloroethoxy)methane	ND	0.38		mg/Kg-dry	1	12/9/2004
Bis(2-chloroethyl)ether	ND	0.38		mg/Kg-dry	1	12/9/2004
Bis(2-ethylhexyl)phthalate	ND	0.38		mg/Kg-dry	1	12/9/2004
4-Bromophenyl phenyl ether	ND	0.38		mg/Kg-dry	1	12/9/2004
Butyl benzyl phthalate	ND	0.38		mg/Kg-dry	1	12/9/2004
Carbazole	ND	0.38		mg/Kg-dry	1	12/9/2004
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	12/9/2004
4-Chloroaniline	ND	0.38		mg/Kg-dry	1	12/9/2004
2-Chloronaphthalene	ND	0.38		mg/Kg-dry	1	12/9/2004
2-Chlorophenol	ND	0.38		mg/Kg-dry	1	12/9/2004
4-Chlorophenyl phenyl ether	ND	0.38		mg/Kg-dry	1	12/9/2004
Dibenzofuran	ND	0.38		mg/Kg-dry	1	12/9/2004
1,2-Dichlorobenzene	ND	0.38		mg/Kg-dry	1	12/9/2004
1,3-Dichlorobenzene	ND	0.38		mg/Kg-dry	1	12/9/2004
1,4-Dichlorobenzene	ND	0.38		mg/Kg-dry	1	12/9/2004
3,3´-Dichlorobenzidine	ND	0.75		mg/Kg-dry	1	12/9/2004

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2201 West Campbell Park Drive Chicago, IL 60612-3547
Tel: (312) 563-0371 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Laboratory Accreditation Numbers : IEPA NELAP 100445 ; AIHA 10248 ; NVLAP 101202-0

Report Date: December 10, 2004
Print Date: December 15, 2004

Client:	Burns & McDonnell	**Client Sample ID:**	WSS-SB59-002
Lab Order:	0412085	**Tag Number:**	16-18'
Project:	32088, Willow Street Station- General Iron	**Collection Date:**	12/3/2004 12:25:00 PM
Lab ID:	0412085-006B	**Matrix:**	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **12/7/2004**		Analyst: **PAB**
2,4-Dichlorophenol	ND	0.38		mg/Kg-dry	1	12/9/2004
Diethyl phthalate	ND	0.38		mg/Kg-dry	1	12/9/2004
Dimethyl phthalate	ND	0.38		mg/Kg-dry	1	12/9/2004
Di-n-butyl phthalate	ND	0.38		mg/Kg-dry	1	12/9/2004
2,4-Dimethylphenol	ND	0.38		mg/Kg-dry	1	12/9/2004
4,6-Dinitro-2-methylphenol	ND	1.8		mg/Kg-dry	1	12/9/2004
2,4-Dinitrophenol	ND	1.8		mg/Kg-dry	1	12/9/2004
2,4-Dinitrotoluene	ND	0.19		mg/Kg-dry	1	12/9/2004
2,6-Dinitrotoluene	ND	0.19		mg/Kg-dry	1	12/9/2004
Di-n-octyl phthalate	ND	0.38		mg/Kg-dry	1	12/9/2004
Hexachlorobenzene	ND	0.38		mg/Kg-dry	1	12/9/2004
Hexachlorobutadiene	ND	0.38		mg/Kg-dry	1	12/9/2004
Hexachlorocyclopentadiene	ND	0.38		mg/Kg-dry	1	12/9/2004
Hexachloroethane	ND	0.38		mg/Kg-dry	1	12/9/2004
Isophorone	ND	0.38		mg/Kg-dry	1	12/9/2004
2-Methylnaphthalene	ND	0.38		mg/Kg-dry	1	12/9/2004
2-Methylphenol	ND	0.38		mg/Kg-dry	1	12/9/2004
4-Methylphenol	ND	0.38		mg/Kg-dry	1	12/9/2004
2-Nitroaniline	ND	1.8		mg/Kg-dry	1	12/9/2004
3-Nitroaniline	ND	1.8		mg/Kg-dry	1	12/9/2004
4-Nitroaniline	ND	1.8		mg/Kg-dry	1	12/9/2004
Nitrobenzene	ND	0.19		mg/Kg-dry	1	12/9/2004
2-Nitrophenol	ND	0.38		mg/Kg-dry	1	12/9/2004
4-Nitrophenol	ND	1.8		mg/Kg-dry	1	12/9/2004
N-Nitrosodi-n-propylamine	ND	0.19		mg/Kg-dry	1	12/9/2004
N-Nitrosodiphenylamine	ND	0.38		mg/Kg-dry	1	12/9/2004
2, 2'-oxybis(1-Chloropropane)	ND	0.38		mg/Kg-dry	1	12/9/2004
Pentachlorophenol	ND	1.8		mg/Kg-dry	1	12/9/2004
Phenol	ND	0.38		mg/Kg-dry	1	12/9/2004
1,2,4-Trichlorobenzene	ND	0.38		mg/Kg-dry	1	12/9/2004
2,4,5-Trichlorophenol	ND	0.75		mg/Kg-dry	1	12/9/2004
2,4,6-Trichlorophenol	ND	0.38		mg/Kg-dry	1	12/9/2004
Percent Moisture	**D2974**			Prep Date: **12/6/2004**		Analyst: **ASM**
Percent Moisture	13.17	0.01	*	wt%	1	12/7/2004

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

Burns & McDonnell SINCE 1898

Request for Chemical Analysis and Chain of Custody Record

Document Control No: WSS-005-2004

Lab. Reference No. or Episode No.: 0412085

Burns & McDonnell Engineering
2601 W. 22nd St
Oak Brook, Illinois 60523
Phone: (630) 990-0300 Fax: (630) 990-0301

Attention: Diane Saftic

Laboratory: STAT
Address: 2201 West Campbell Park
City/State/Zip: Chicago, IL 60612
Telephone: (312) 563-0371

Project Number: 32088

Site Name: Willow Street Station - General Iron

Sample Number: Group or SWMU Name	Sample Number: Sample Point	Sample Number: Sample Designator	Sample Event: Round	Sample Event: Year	Sample Depth (in feet): From	Sample Depth (in feet): To	Sample Collected: Date	Sample Collected: Time	Sample Type: Matrix: Liquid	Solid	Gas	Number of Containers	Parameter/Method Code: TCL VOCs (8260)	TCL SVOCs (8270D SIM)	TPH (8015)	Remarks
WSS	SB53	001	1	2004	8	10	12/3/04	0805		X		4	X	X	X	PID = 0.5ppm
WSS	SB53	002	1	2004	14	16	12/3/04	0820		X		4	X	X	X	PID = 22.7ppm
WSS	SB53	003	1	2004	18	20	12/3/04	0835		X		4	X	X	X	PID = 0.0ppm
—	TB05	—	—	—	—	—	—	—	X			4	X			trip blank
WSS	SB59	001	1	2004	6	8	12/3/04	1210		X		4	X	X	X	PID = 0.0ppm
WSS	SB59	002	1	2004	16	18	12/3/04	1225		X		4	X	X	X	PID = 0.0ppm

AMH
12-3-04

Sampler (signature): Amy Hanrahan

Sampler (signature):

Custody Seal Number
WSS-005-2004-001
WSS-005-2004-002

Special Instructions:
Standard TAT
1-Cooler

Relinquished By (signature): Amy Hanrahan
Date/Time: 12-3-04 1225
Received By (signature): AMH
Date/Time: 12/3/04 14:25

Relinquished By (signature):
Date/Time:
Received By (signature):
Date/Time:

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 6

Laboratory Comments:

061301 Form WCD-KC1-CHI

STAT Analysis Corporation

Sample Receipt Checklist

Client Name **B&M**

Date and Time Received: **12/3/2004**

Work Order Numbe **0412085**

Received by: CDF

Checklist completed by: Jessica Canta 12/3/04 (Signature / Date)

Reviewed by: cc 12/10/04 (Initials / Date)

Matrix: Carrier name Client Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 6 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - Samples properly preserved/ pH checked?	Yes ☐	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

STAT Analysis Corporation

Date: 15-Dec-04

CLIENT: Burns & McDonnell
Work Order: 0412085
Project: 32088, Willow Street Station- General Iron
Test No: SW5035/8260B **Matrix:** S

QC SUMMARY REPORT
SURROGATE RECOVERIES

Sample ID	BR4FBZ	BZMED8	DBFM	DCA12D4				
VBLK120804a-2	104	96.7	100	100				
VLCS120804A-2	100	99.2	104	104				
VLCSD120804A-2	102	97.7	106	109				
0412059-007AMS	88.3	95.8	104	102				
0412059-007AMSD	85.1	97.5	104	107				
0412059-008AMS	83.3	90.9	105	102				
0412059-008AMSD	85.9	87.6	99.8	105				
0412085-001A	94.4	98.0	103	102				
0412085-003A	74.5	78.9 *	97.0	118				
0412085-005A	89.3	94.1	103	106				
0412085-002A	82.4	93.7	108	106				
VBLK120904-2	104	96.1	105	97.2				
VLCS120904-2	103	100	108	106				
VLCSD120904-2	103	100	106	98.1				
0412085-002A:50	107	101	107	111				
0412085-003AR	76.0	81.0 *	100	104				
0412085-006A	85.9	87.3	101	109				

Acronym		Surrogate	QC Limits
BR4FBZ	=	4-Bromofluorobenzene	63-110
BZMED8	=	Toluene-d8	85-110
DBFM	=	Dibromofluoromethane	83-119
DCA12D4	=	1,2-Dichloroethane-d4	84-129

*** Surrogate recovery outside acceptance limits**

1

CLIENT: Burns & McDonnell
Work Order: 0412085
Project: 32088, Willow Street Station- General Iron
Test No: SW8270C **Matrix:** S

QC SUMMARY REPORT
SURROGATE RECOVERIES

Sample ID	CLPH2D4	DCBZ12D4	NO2BZD5	PH246BR	PH2F	PHD5	PHEN2F	PHEND14
MB-12127-SVOC	79.9	71.7	89.6	108	84.3	91.6	74.4	87.1
LCS-12127-SVOC	74.5	66.8	87.4	86.2	77.6	88.4	73.5	88.9
0412059-007BMS	66.9	61.3	81.9	129 *	59.8	77.0	80.7	95.7
0412059-007BMSD	67.1	62.4	80.1	109	62.0	74.6	76.6	86.3
0412059-008BMS	72.0	68.7	87.5	82.6	69.9	81.7	78.4	75.3
0412059-008BMSD	90.8	87.7	110	105	91.0	102	93.2	85.7
0412085-003B	66.0	61.0	83.5	65.1	65.2	82.7	72.5	87.3
0412085-006B	66.2	61.1	83.1	73.5	66.4	81.2	71.5	91.1
0412085-005B	73.8	66.4	92.4	85.8	74.6	89.5	73.4	86.1
0412085-001B	46.2	42.6	60.3	61.8	41.2	55.8	54.4	59.9
0412085-002B	65.2	63.2	83.9	73.0	58.4	74.2	102	146 *
0412085-002B:10	66.9	69.6	75.8	68.6	61.6	79.7	75.4	117

Acronym		Surrogate	QC Limits
CLPH2D4	=	2-Chlorophenol-d4	20-130
DCBZ12D4	=	1,2-Dichlorobenzene-d4	20-130
NO2BZD5	=	Nitrobenzene-d5	23-120
PH246BR	=	2,4,6-Tribromophenol	19-122
PH2F	=	2-Fluorophenol	25-121
PHD5	=	Phenol-d5	24-113
PHEN2F	=	2-Fluorobiphenyl	30-115
PHEND14	=	4-Terphenyl-d14	18-137

*** Surrogate recovery outside acceptance limits**

1

Prep Start Date: **12/7/2004 12:30:55**
Prep End Date:

Prep Batch **12127** Prep Code: **3550_SVOC** Technician: **JT**

Prep Factor Units: **mL / Kg**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
0412059-001B	Soil		0.03032	0	0	1	32.982	12/7/2004	12/7/2004
0412059-002B	Soil		0.030035	0	0	1	33.294	12/7/2004	12/7/2004
0412059-003B	Soil		0.030067	0	0	1	33.259	12/7/2004	12/7/2004
0412059-004B	Soil		0.03038	0	0	1	32.916	12/7/2004	12/7/2004
0412059-005B	Soil		0.03026	0	0	1	33.047	12/7/2004	12/7/2004
0412059-006B	Soil		0.03025	0	0	1	33.058	12/7/2004	12/7/2004
0412059-007B	Soil		0.03031	0	0	1	32.992	12/7/2004	12/7/2004
0412059-007BMS	Soil		0.03029	0	0	1	33.014	12/7/2004	12/7/2004
0412059-007BMSD	Soil		0.03028	0	0	1	33.025	12/7/2004	12/7/2004
0412059-008B	Soil		0.03033	0	0	1	32.971	12/7/2004	12/7/2004
0412059-008BMS	Soil		0.03039	0	0	1	32.906	12/7/2004	12/7/2004
0412059-008BMSD	Soil		0.03075	0	0	1	32.520	12/7/2004	12/7/2004
0412059-009B	Soil		0.03081	0	0	1	32.457	12/7/2004	12/7/2004
0412059-010B	Soil		0.03081	0	0	1	32.457	12/7/2004	12/7/2004
0412085-001B	Soil		0.0307	0	0	1	32.573	12/7/2004	12/8/2004
0412085-002B	Soil		0.03072	0	0	1	32.552	12/7/2004	12/8/2004
0412085-003B	Soil		0.03044	0	0	1	32.852	12/7/2004	12/8/2004
0412085-005B	Soil		0.03018	0	0	1	33.135	12/7/2004	12/8/2004
0412085-006B	Soil		0.03036	0	0	1	32.938	12/7/2004	12/8/2004
0412099-001B	Soil		0.03058	0	0	1	32.701	12/7/2004	12/8/2004
0412099-002B	Soil		0.03032	0	0	1	32.982	12/7/2004	12/8/2004
0412099-003B	Soil		0.03073	0	0	1	32.541	12/7/2004	12/8/2004
0412130-003A	Soil		0.0307	0	0	1	32.573	12/7/2004	12/8/2004
LCS-12127-SVOC			0.03	0	0	1	33.333	12/7/2004	12/7/2004
MB-12127-SVOC			0.03	0	0	1	33.333	12/7/2004	12/7/2004

STAT Analysis Corporation

Date: 15-Dec-04

CLIENT: Burns & McDonnell
Work Order: 0412085
Project: 32088, Willow Street Station- General Iron
Test No: SW8270C-SIM **Matrix:** S

QC SUMMARY REPORT
SURROGATE RECOVERIES

Sample ID	DCBZ12D4	NO2BZD5	PHEN2F	PHEND14				
0412059-007BMS	72.3	96.4	81.2	126				
0412059-007BMSD	62.7	83.8	73.1	133				
MB-12126-PNA	82.2	92.6	78.2	88.2				
LCS-12126-PNA	75.6	85.4	73.1	83.6				
0412059-008BMS	65.9	83.2	74.1	85.4				
0412059-008BMSD	68.3	88.8	73.3	87.2				
0412085-003B	63.7	80.3	54.8	62.7				
0412085-006B	60.1	74.4	53.4	62.3				
0412085-005B	57.4	72.0	51.7	55.9				
0412085-001B	61.8	81.6	61.2	67.9				
0412085-002B	61.0	79.1	101	57.8				

Acronym		Surrogate	QC Limits
DCBZ12D4	=	1,2-Dichlorobenzene-d4	20-130
NO2BZD5	=	Nitrobenzene-d5	23-120
PHEN2F	=	2-Fluorobiphenyl	30-115
PHEND14	=	4-Terphenyl-d14	18-137

*** Surrogate recovery outside acceptance limits**

1

Prep Start Date: **12/7/2004 12:27:03**
Prep End Date: **12/8/2004 9:59:21 P**

Prep Batch **12126** Prep Code: **3550_PNA** Technician: **JT**

Prep Factor Units: **mL / Kg**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
0412058-001B	Soil		0.03068	0	0	1	32.595	12/7/2004	12/7/2004
0412058-002B	Soil		0.03087	0	0	1	32.394	12/7/2004	12/7/2004
0412058-003B	Soil		0.03064	0	0	1	32.637	12/7/2004	12/7/2004
0412059-001B	Soil		0.03032	0	0	1	32.982	12/7/2004	12/7/2004
0412059-002B	Soil		0.03035	0	0	1	32.949	12/7/2004	12/7/2004
0412059-003B	Soil		0.03067	0	0	1	32.605	12/7/2004	12/7/2004
0412059-004B	Soil		0.03038	0	0	1	32.916	12/7/2004	12/7/2004
0412059-005B	Soil		0.03026	0	0	1	33.047	12/7/2004	12/7/2004
0412059-006B	Soil		0.03025	0	0	1	33.058	12/7/2004	12/7/2004
0412059-007B	Soil		0.03031	0	0	1	32.992	12/7/2004	12/7/2004
0412059-007BMS	Soil		0.03031	0	0	1	32.992	12/7/2004	12/7/2004
0412059-007BMSD	Soil		0.03047	0	0	1	32.819	12/7/2004	12/7/2004
0412059-008B	Soil		0.03033	0	0	1	32.971	12/7/2004	12/7/2004
0412059-008BMS	Soil		0.03039	0	0	1	32.906	12/7/2004	12/7/2004
0412059-008BMSD	Soil		0.0305	0	0	1	32.787	12/7/2004	12/7/2004
0412059-009B	Soil		0.03081	0	0	1	32.457	12/7/2004	12/7/2004
0412059-010B	Soil		0.03081	0	0	1	32.457	12/7/2004	12/7/2004
0412085-001B	Soil		0.0307	0	0	1	32.573	12/7/2004	12/8/2004
0412085-002B	Soil		0.03072	0	0	1	32.552	12/7/2004	12/8/2004
0412085-003B	Soil		0.03044	0	0	1	32.852	12/7/2004	12/8/2004
0412085-005B	Soil		0.03018	0	0	1	33.135	12/7/2004	12/8/2004
0412085-006B	Soil		0.03036	0	0	1	32.938	12/7/2004	12/8/2004
0412086-001A	Soil		0.03052	0	0	1	32.765	12/7/2004	12/8/2004
0412130-003A	Soil		0.0307	0	0	1	32.573	12/7/2004	12/8/2004
LCS-12126-PNA			0.03	0	0	1	33.333	12/7/2004	12/7/2004

Prep Start Date: **12/7/2004 12:27:03**
Prep End Date: **12/8/2004 9:59:21 P**

Prep Batch **12126** Prep Code: **3550_PNA** Technician: **JT**

Prep Factor Units: **mL / Kg**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-12126-PNA			0.03	0	0	1	33.333	12/7/2004	12/7/2004

Prep Start Date: **12/7/2004 8:14:46 P**
Prep End Date:

Prep Batch **12138** Prep Code: **3580_TPH** Technician: **CDC**

Prep Factor Units: **mL / Kg**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
0412059-001B	Soil		0.00525	0	0	5	952.381	12/7/2004	12/8/2004
0412059-002B	Soil		0.00504	0	0	5	992.063	12/7/2004	12/8/2004
0412059-003B	Soil		0.00517	0	0	5	967.118	12/7/2004	12/8/2004
0412059-004B	Soil		0.00557	0	0	5	897.666	12/7/2004	12/8/2004
0412059-005B	Soil		0.00525	0	0	5	952.381	12/7/2004	12/8/2004
0412059-006B	Soil		0.00546	0	0	5	915.751	12/7/2004	12/8/2004
0412059-007B	Soil		0.00532	0	0	5	939.850	12/7/2004	12/8/2004
0412059-007BMS	Soil		0.00523	0	0	5	956.023	12/7/2004	12/8/2004
0412059-007BMSD	Soil		0.00509	0	0	5	982.318	12/7/2004	12/8/2004
0412059-008B	Soil		0.00536	0	0	5	932.836	12/7/2004	12/8/2004
0412059-008BMS	Soil		0.00506	0	0	5	988.142	12/7/2004	12/8/2004
0412059-008BMSD	Soil		0.00509	0	0	5	982.318	12/7/2004	12/8/2004
0412059-009B	Soil		0.00513	0	0	5	974.659	12/7/2004	12/8/2004
0412059-010B	Soil		0.00591	0	0	5	846.024	12/7/2004	12/8/2004
0412085-001B	Soil		0.00559	0	0	5	894.454	12/7/2004	12/8/2004
0412085-002B	Soil		0.00529	0	0	5	945.180	12/7/2004	12/8/2004
0412085-003B	Soil		0.00552	0	0	5	905.797	12/7/2004	12/8/2004
0412085-005B	Soil		0.00521	0	0	5	959.693	12/7/2004	12/8/2004
0412085-006B	Soil		0.00524	0	0	5	954.198	12/7/2004	12/8/2004
LCS-12138-TPH			0.005	0	0	5	1000.000	12/7/2004	12/8/2004
MB-12138-TPH			0.005	0	0	5	1000.000	12/7/2004	12/8/2004

CLIENT: Burns & McDonnell
Work Order: 0412085
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12138

Sample ID **MB-12138-TPH** SampType: **MBLK** TestCode: **TPH** Units: **mg/Kg** Prep Date: **12/7/2004** Run ID: **GC-FID_041208A**
Client ID: **ZZZZZ** Batch ID: **12138** TestNo: **SW8015M** Analysis Date: **12/8/2004** SeqNo: **320353**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	ND	20									*
TPH (Diesel)	ND	20									*
TPH (Oil)	ND	20									*

Sample ID **LCS-12138-TPH** SampType: **LCS** TestCode: **TPH** Units: **mg/Kg** Prep Date: **12/7/2004** Run ID: **GC-FID_041208A**
Client ID: **ZZZZZ** Batch ID: **12138** TestNo: **SW8015M** Analysis Date: **12/8/2004** SeqNo: **320354**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	139.4	20	200	0	69.7	30	150	0	0		*
TPH (Diesel)	217.4	20	200	0	109	30	150	0	0		*
TPH (Oil)	299.9	20	200	0	150	30	150	0	0		*

Sample ID **0412059-007BMS** SampType: **MS** TestCode: **TPH** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **GC-FID_041208A**
Client ID: **ZZZZZ** Batch ID: **12138** TestNo: **SW8015M** Analysis Date: **12/9/2004** SeqNo: **320362**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	228.7	32	317.2	0	72.1	30	150	0	0		*
TPH (Diesel)	874	32	317.2	302	180	30	150	0	0		S*
TPH (Oil)	2083	32	317.2	1099	310	30	150	0	0		S*

Sample ID **0412059-008BMS** SampType: **MS** TestCode: **TPH** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **GC-FID_041208A**
Client ID: **ZZZZZ** Batch ID: **12138** TestNo: **SW8015M** Analysis Date: **12/9/2004** SeqNo: **320365**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	174	25	247.8	0	70.2	30	150	0	0		*
TPH (Diesel)	296.8	25	247.8	5.454	118	30	150	0	0		*
TPH (Oil)	396.2	25	247.8	24.72	150	30	150	0	0		*

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

Sample ID **0412059-007BMSD** SampType: **MSD** TestCode: **TPH** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **GC-FID_041208A**
Client ID: **ZZZZZ** Batch ID: **12138** TestNo: **SW8015M** Analysis Date: **12/9/2004** SeqNo: **320363**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	293.2	33	326	0	89.9	30	150	228.7	24.7	25	*
TPH (Diesel)	1474	33	326	302	360	30	150	874	51.1	25	SR*
TPH (Oil)	3292	33	326	1099	673	30	150	2083	45.0	25	SR*

Sample ID **0412059-008BMSD** SampType: **MSD** TestCode: **TPH** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **GC-FID_041208A**
Client ID: **ZZZZZ** Batch ID: **12138** TestNo: **SW8015M** Analysis Date: **12/9/2004** SeqNo: **320366**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	182.8	25	246.4	0	74.2	30	150	174	4.95	25	*
TPH (Diesel)	330.7	25	246.4	5.454	132	30	150	296.8	10.8	25	*
TPH (Oil)	434	25	246.4	24.72	166	30	150	396.2	9.11	25	S*

CLIENT: Burns & McDonnell
Work Order: 0412085
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12126

Sample ID **MB-12126-PNA** SampType: **MBLK** TestCode: **PNA_SOIL** Units: **mg/Kg** Prep Date: **12/7/2004** Run ID: **SVOC-4_041207A**
Client ID: **ZZZZZ** Batch ID: **12126** TestNo: **SW8270C-SI** Analysis Date: **12/7/2004** SeqNo: **319326**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.025	0	0	0	0	0	0	0		
Acenaphthylene	ND	0.025	0	0	0	0	0	0	0		
Anthracene	ND	0.025	0	0	0	0	0	0	0		
Benz(a)anthracene	ND	0.025	0	0	0	0	0	0	0		
Benzo(a)pyrene	ND	0.025	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	ND	0.025	0	0	0	0	0	0	0		
Benzo(g,h,i)perylene	ND	0.025	0	0	0	0	0	0	0		
Benzo(k)fluoranthene	ND	0.025	0	0	0	0	0	0	0		
Chrysene	ND	0.025	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	ND	0.025	0	0	0	0	0	0	0		
Fluoranthene	ND	0.025	0	0	0	0	0	0	0		
Fluorene	ND	0.025	0	0	0	0	0	0	0		
Indeno(1,2,3-cd)pyrene	ND	0.025	0	0	0	0	0	0	0		
Naphthalene	ND	0.025	0	0	0	0	0	0	0		
Phenanthrene	ND	0.025	0	0	0	0	0	0	0		
Pyrene	ND	0.025	0	0	0	0	0	0	0		

Sample ID **LCS-12126-PNA** SampType: **LCS** TestCode: **PNA_SOIL** Units: **mg/Kg** Prep Date: **12/7/2004** Run ID: **SVOC-4_041207A**
Client ID: **ZZZZZ** Batch ID: **12126** TestNo: **SW8270C-SI** Analysis Date: **12/7/2004** SeqNo: **319327**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.1207	0.025	0.167	0	72.3	30	130	0	0		
Acenaphthylene	0.1253	0.025	0.167	0	75	30	130	0	0		
Anthracene	0.1293	0.025	0.167	0	77.4	30	130	0	0		
Benz(a)anthracene	0.1287	0.025	0.167	0	77	30	130	0	0		
Benzo(a)pyrene	0.1397	0.025	0.167	0	83.6	30	130	0	0		
Benzo(b)fluoranthene	0.1317	0.025	0.167	0	78.8	30	130	0	0		
Benzo(g,h,i)perylene	0.1323	0.025	0.167	0	79.2	30	130	0	0		
Benzo(k)fluoranthene	0.1477	0.025	0.167	0	88.4	30	130	0	0		
Chrysene	0.1437	0.025	0.167	0	86	30	130	0	0		
Dibenz(a,h)anthracene	0.1373	0.025	0.167	0	82.2	30	130	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

Sample ID **LCS-12126-PNA** SampType: **LCS** TestCode: **PNA_SOIL** Units: **mg/Kg** Prep Date: **12/7/2004** Run ID: **SVOC-4_041207A**
Client ID: **ZZZZZ** Batch ID: **12126** TestNo: **SW8270C-SI** Analysis Date: **12/7/2004** SeqNo: **319327**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	0.1313	0.025	0.167	0	78.6	30	130	0	0		
Fluorene	0.125	0.025	0.167	0	74.9	30	130	0	0		
Indeno(1,2,3-cd)pyrene	0.1353	0.025	0.167	0	81	30	130	0	0		
Naphthalene	0.1113	0.025	0.167	0	66.7	30	130	0	0		
Phenanthrene	0.1157	0.025	0.167	0	69.3	30	130	0	0		
Pyrene	0.1253	0.025	0.167	0	75	30	130	0	0		

Sample ID **0412059-008BMS** SampType: **MS** TestCode: **PNA_SOIL-B** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **SVOC-4_041207A**
Client ID: **ZZZZZ** Batch ID: **12126** TestNo: **SW8270C-SI** Analysis Date: **12/7/2004** SeqNo: **319331**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.2455	0.031	0.2067	0.07153	84.2	30	130	0	0		
Acenaphthylene	0.1882	0.031	0.2067	0.01364	84.4	30	130	0	0		
Anthracene	0.2897	0.031	0.2067	0.07856	102	30	130	0	0		
Benz(a)anthracene	0.2592	0.031	0.2067	0.06492	93.9	30	130	0	0		
Benzo(b)fluoranthene	0.2327	0.031	0.2067	0.03845	94	30	130	0	0		
Benzo(k)fluoranthene	0.2389	0.031	0.2067	0.03845	97	30	130	0	0		
Benzo(g,h,i)perylene	0.1762	0.031	0.2067	0.02522	73	30	130	0	0		
Benzo(a)pyrene	0.2794	0.031	0.2067	0.05871	107	30	130	0	0		
Chrysene	0.2827	0.031	0.2067	0.06119	107	30	130	0	0		
Dibenz(a,h)anthracene	0.17	0.031	0.2067	0.007856	78.4	30	130	0	0		
Fluoranthene	0.3697	0.031	0.2067	0.1398	111	30	130	0	0		
Fluorene	0.2592	0.031	0.2067	0.08807	82.8	30	130	0	0		
Indeno(1,2,3-cd)pyrene	0.1816	0.031	0.2067	0.02398	76.2	30	130	0	0		
Naphthalene	0.6978	0.031	0.2067	0.3887	150	30	130	0	0		SE
Phenanthrene	0.482	0.031	0.2067	0.2365	119	30	130	0	0		E
Pyrene	0.3396	0.031	0.2067	0.1149	109	30	130	0	0		

Sample ID **0412059-007BMS** SampType: **MS** TestCode: **PNA_SOIL-B** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **SVOC-3_041208A**
Client ID: **ZZZZZ** Batch ID: **12126** TestNo: **SW8270C-SI** Analysis Date: **12/8/2004** SeqNo: **320057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	2.862	0.041	0.2743	2.502	131	30	130	0	0		SE
Acenaphthylene	0.5206	0.041	0.2743	0.393	46.5	30	130	0	0		
Anthracene	5.312	0.041	0.2743	5.325	-4.59	30	130	0	0		SE
Benz(a)anthracene	8.799	0.041	0.2743	8.593	75	30	130	0	0		E
Benzo(b)fluoranthene	4.45	0.041	0.2743	3.313	415	30	130	0	0		SE
Benzo(k)fluoranthene	2.697	0.041	0.2743	2.576	44.1	30	130	0	0		E
Benzo(g,h,i)perylene	1.367	0.041	0.2743	1.041	119	30	130	0	0		E
Benzo(a)pyrene	3.46	0.041	0.2743	3.327	48.7	30	130	0	0		E
Chrysene	5.214	0.041	0.2743	4.281	340	30	130	0	0		SE
Dibenz(a,h)anthracene	0.6865	0.041	0.2743	0.4489	86.6	30	130	0	0		E
Fluoranthene	13.3	0.041	0.2743	12.25	380	30	130	0	0		SE
Fluorene	3.89	0.041	0.2743	3.638	91.8	30	130	0	0		E
Indeno(1,2,3-cd)pyrene	1.625	0.041	0.2743	1.202	154	30	130	0	0		SE
Naphthalene	2.912	0.041	0.2743	2.65	95.4	30	130	0	0		E
Phenanthrene	14.08	0.041	0.2743	13.5	209	30	130	0	0		SE
Pyrene	11.29	0.041	0.2743	10.63	241	30	130	0	0		SE

Sample ID **0412059-008BMSD** SampType: **MSD** TestCode: **PNA_SOIL-B** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **SVOC-4_041207A**
Client ID: **ZZZZZ** Batch ID: **12126** TestNo: **SW8270C-SI** Analysis Date: **12/7/2004** SeqNo: **319332**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.2072	0.031	0.206	0.07153	65.9	30	130	0.2455	16.9	50	
Acenaphthylene	0.1698	0.031	0.206	0.01364	75.8	30	130	0.1882	10.3	50	
Anthracene	0.259	0.031	0.206	0.07856	87.6	30	130	0.2897	11.2	50	
Benz(a)anthracene	0.2241	0.031	0.206	0.06492	77.3	30	130	0.2592	14.5	50	
Benzo(b)fluoranthene	0.2105	0.031	0.206	0.03845	83.5	30	130	0.2327	10.0	50	
Benzo(k)fluoranthene	0.2311	0.031	0.206	0.03845	93.5	30	130	0.2389	3.34	50	
Benzo(g,h,i)perylene	0.1657	0.031	0.206	0.02522	68.2	30	130	0.1762	6.14	50	
Benzo(a)pyrene	0.243	0.031	0.206	0.05871	89.5	30	130	0.2794	13.9	50	
Chrysene	0.2426	0.031	0.206	0.06119	88.1	30	130	0.2827	15.3	50	
Dibenz(a,h)anthracene	0.1678	0.031	0.206	0.007856	77.6	30	130	0.17	1.34	50	

Qualifiers:
ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blanl

Sample ID **0412059-008BMSD**	SampType: **MSD**	TestCode: **PNA_SOIL-B**	Units: **mg/Kg-dry**	Prep Date: **12/7/2004**	Run ID: **SVOC-4_041207A**
Client ID: **ZZZZZ**	Batch ID: **12126**	TestNo: **SW8270C-SI**		Analysis Date: **12/7/2004**	SeqNo: **319332**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	0.3018	0.031	0.206	0.1398	78.7	30	130	0.3697	20.2	50	
Fluorene	0.2212	0.031	0.206	0.08807	64.6	30	130	0.2592	15.8	50	
Indeno(1,2,3-cd)pyrene	0.1743	0.031	0.206	0.02398	73	30	130	0.1816	4.06	50	
Naphthalene	0.4835	0.031	0.206	0.3887	46.1	30	130	0.6978	36.3	50	E
Phenanthrene	0.3713	0.031	0.206	0.2365	65.4	30	130	0.482	25.9	50	
Pyrene	0.273	0.031	0.206	0.1149	76.7	30	130	0.3396	21.7	50	

Sample ID **0412059-007BMSD**	SampType: **MSD**	TestCode: **PNA_SOIL-B**	Units: **mg/Kg-dry**	Prep Date: **12/7/2004**	Run ID: **SVOC-3_041208A**
Client ID: **ZZZZZ**	Batch ID: **12126**	TestNo: **SW8270C-SI**		Analysis Date: **12/8/2004**	SeqNo: **320058**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	3.377	0.041	0.2728	2.502	321	30	130	2.862	16.5	50	SE
Acenaphthylene	0.544	0.041	0.2728	0.393	55.3	30	130	0.5206	4.40	50	
Anthracene	6.604	0.041	0.2728	5.325	469	30	130	5.312	21.7	50	SE
Benz(a)anthracene	9.881	0.041	0.2728	8.593	472	30	130	8.799	11.6	50	SE
Benzo(b)fluoranthene	4.214	0.041	0.2728	3.313	330	30	130	4.45	5.44	50	SE
Benzo(k)fluoranthene	2.979	0.041	0.2728	2.576	148	30	130	2.697	9.92	50	SE
Benzo(g,h,i)perylene	1.191	0.041	0.2728	1.041	55.3	30	130	1.367	13.7	50	E
Benzo(a)pyrene	3.456	0.041	0.2728	3.327	47.3	30	130	3.46	0.132	50	E
Chrysene	5.293	0.041	0.2728	4.281	371	30	130	5.214	1.51	50	SE
Dibenz(a,h)anthracene	0.7264	0.041	0.2728	0.4489	102	30	130	0.6865	5.66	50	E
Fluoranthene	17.93	0.041	0.2728	12.25	2080	30	130	13.3	29.7	50	SE
Fluorene	4.786	0.041	0.2728	3.638	421	30	130	3.89	20.7	50	SE
Indeno(1,2,3-cd)pyrene	1.391	0.041	0.2728	1.202	69.3	30	130	1.625	15.6	50	E
Naphthalene	3.092	0.041	0.2728	2.65	162	30	130	2.912	6.02	50	SE
Phenanthrene	20.47	0.041	0.2728	13.5	2550	30	130	14.08	37.0	50	SE
Pyrene	14.97	0.041	0.2728	10.63	1590	30	130	11.29	28.0	50	SE

CLIENT: Burns & McDonnell
Work Order: 0412085
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12127

Sample ID	**MB-12127-SVOC**	SampType:	**MBLK**	TestCode:	**SVOC_SOIL**	Units:	**mg/Kg**	Prep Date:	**12/7/2004**	Run ID:	**SVOC-2_041207B**
Client ID:	**ZZZZZ**	Batch ID:	**12127**	TestNo:	**SW8270C**			Analysis Date:	**12/7/2004**	SeqNo:	**319355**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	0.17									
1,2-Dichlorobenzene	ND	0.17									
1,3-Dichlorobenzene	ND	0.17									
1,4-Dichlorobenzene	ND	0.17									
2, 2'-oxybis(1-Chloropropane)	ND	0.17									
2,4,5-Trichlorophenol	ND	0.33									
2,4,6-Trichlorophenol	ND	0.17									
2,4-Dichlorophenol	ND	0.17									
2,4-Dimethylphenol	ND	0.17									
2,4-Dinitrophenol	ND	0.80									
2,4-Dinitrotoluene	ND	0.17									
2,6-Dinitrotoluene	ND	0.17									
2-Chloronaphthalene	ND	0.17									
2-Chlorophenol	ND	0.17									
2-Methylnaphthalene	ND	0.17									
2-Methylphenol	ND	0.17									
2-Nitroaniline	ND	0.80									
2-Nitrophenol	ND	0.17									
3,3´-Dichlorobenzidine	ND	0.33									
3-Nitroaniline	ND	0.80									
4,6-Dinitro-2-methylphenol	ND	0.80									
4-Bromophenyl phenyl ether	ND	0.17									
4-Chloro-3-methylphenol	ND	0.17									
4-Chloroaniline	ND	0.17									
4-Chlorophenyl phenyl ether	ND	0.17									
4-Methylphenol	ND	0.17									
4-Nitroaniline	ND	0.80									
4-Nitrophenol	ND	0.80									
Acenaphthene	ND	0.17									
Acenaphthylene	ND	0.17									
Aniline	ND	0.17									

Qualifiers:
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H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412085
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12127

Sample ID	**MB-12127-SVOC**	SampType:	**MBLK**	TestCode:	**SVOC_SOIL**	Units:	**mg/Kg**	Prep Date:	**12/7/2004**	Run ID:	**SVOC-2_041207B**
Client ID:	**ZZZZZ**	Batch ID:	**12127**	TestNo:	**SW8270C**			Analysis Date:	**12/7/2004**	SeqNo:	**319355**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	ND	0.17									
Benz(a)anthracene	ND	0.17									
Benzidine	ND	0.17									
Benzo(a)pyrene	ND	0.17									
Benzo(b)fluoranthene	ND	0.17									
Benzo(g,h,i)perylene	ND	0.17									
Benzo(k)fluoranthene	ND	0.17									
Benzoic acid	ND	0.80									
Benzyl alcohol	ND	0.17									
Bis(2-chloroethoxy)methane	ND	0.17									
Bis(2-chloroethyl)ether	ND	0.17									
Bis(2-ethylhexyl)phthalate	ND	0.17									
Butyl benzyl phthalate	ND	0.17									
Carbazole	ND	0.17									
Chrysene	ND	0.17									
Di-n-butyl phthalate	ND	0.17									
Di-n-octyl phthalate	ND	0.17									
Dibenz(a,h)anthracene	ND	0.17									
Dibenzofuran	ND	0.17									
Diethyl phthalate	ND	0.17									
Dimethyl phthalate	ND	0.17									
Fluoranthene	ND	0.17									
Fluorene	ND	0.17									
Hexachlorobenzene	ND	0.17									
Hexachlorobutadiene	ND	0.17									
Hexachlorocyclopentadiene	ND	0.17									
Hexachloroethane	ND	0.17									
Indeno(1,2,3-cd)pyrene	ND	0.17									
Isophorone	ND	0.17									
N-Nitrosodi-n-propylamine	ND	0.17									
N-Nitrosodimethylamine	ND	0.17									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412085
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12127

Sample ID **MB-12127-SVOC** SampType: **MBLK** TestCode: **SVOC_SOIL** Units: **mg/Kg** Prep Date: **12/7/2004** Run ID: **SVOC-2_041207B**
Client ID: **ZZZZZ** Batch ID: **12127** TestNo: **SW8270C** Analysis Date: **12/7/2004** SeqNo: **319355**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
N-Nitrosodiphenylamine	ND	0.17									
Naphthalene	ND	0.17									
Nitrobenzene	ND	0.17									
Pentachlorophenol	ND	0.80									
Phenanthrene	ND	0.17									
Phenol	ND	0.17									
Pyrene	ND	0.17									
Pyridine	ND	0.17									

Sample ID **LCS-12127-SVOC** SampType: **LCS** TestCode: **SVOC_SOIL** Units: **mg/Kg** Prep Date: **12/7/2004** Run ID: **SVOC-2_041207B**
Client ID: **ZZZZZ** Batch ID: **12127** TestNo: **SW8270C** Analysis Date: **12/7/2004** SeqNo: **319356**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.25	0.17	1.667	0	75	55	106	0	0		
1,4-Dichlorobenzene	1.156	0.17	1.667	0	69.3	55	90	0	0		
2,4-Dinitrotoluene	1.513	0.17	1.667	0	90.8	55	101	0	0		
2-Chlorophenol	2.499	0.17	3.333	0	75	61	91	0	0		
4-Chloro-3-methylphenol	3.143	0.17	3.333	0	94.3	62	100	0	0		
4-Nitrophenol	3.398	0.80	3.333	0	102	53	123	0	0		
Acenaphthene	1.318	0.17	1.667	0	79.1	65	101	0	0		
N-Nitrosodi-n-propylamine	1.741	0.17	1.667	0	104	55	100	0	0		S
Pentachlorophenol	3.213	0.80	3.333	0	96.4	40	120	0	0		
Phenol	3.045	0.17	3.333	0	91.4	60	91	0	0		S
Pyrene	1.518	0.17	1.667	0	91.1	50	131	0	0		

Sample ID **0412059-007BMS** SampType: **MS** TestCode: **SVOC_SOIL-** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **SVOC-2_041207B**
Client ID: **ZZZZZ** Batch ID: **12127** TestNo: **SW8270C** Analysis Date: **12/8/2004** SeqNo: **319418**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	6.017	0.54	5.477	0	110	62	100	0	0		S
2-Chlorophenol	3.486	0.54	5.477	0	63.6	61	91	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

Sample ID **0412059-007BMS** SampType: **MS** TestCode: **SVOC_SOIL-** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **SVOC-2_041207B**
Client ID: **ZZZZZ** Batch ID: **12127** TestNo: **SW8270C** Analysis Date: **12/8/2004** SeqNo: **319418**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	1.558	0.54	2.739	0	56.9	55	90	0	0		
2,4-Dinitrotoluene	2.545	0.28	2.739	0	92.9	55	101	0	0		
4-Nitrophenol	3.842	2.6	5.477	0	70.1	53	123	0	0		
N-Nitrosodi-n-propylamine	2.295	0.28	2.739	0	83.8	55	100	0	0		
Pentachlorophenol	2.754	2.6	5.477	0	50.3	40	120	0	0		
Phenol	4.336	0.54	5.477	0	79.2	60	91	0	0		
1,2,4-Trichlorobenzene	2.062	0.54	2.739	0	75.3	55	106	0	0		

Sample ID **0412059-008BMS** SampType: **MS** TestCode: **SVOC_SOIL-** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **SVOC-2_041207B**
Client ID: **ZZZZZ** Batch ID: **12127** TestNo: **SW8270C** Analysis Date: **12/8/2004** SeqNo: **319426**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	3.858	0.41	4.126	0	93.5	62	100	0	0		
2-Chlorophenol	3.017	0.41	4.126	0	73.1	61	91	0	0		
1,4-Dichlorobenzene	1.417	0.41	2.064	0	68.6	55	90	0	0		
2,4-Dinitrotoluene	1.416	0.21	2.064	0	68.6	55	101	0	0		
4-Nitrophenol	2.618	2.0	4.126	0	63.5	53	123	0	0		
N-Nitrosodi-n-propylamine	2.165	0.21	2.064	0	105	55	100	0	0		S
Pentachlorophenol	0.7362	2.0	4.126	0	17.8	40	120	0	0		JS
Phenol	3.488	0.41	4.126	0	84.5	60	91	0	0		
1,2,4-Trichlorobenzene	1.746	0.41	2.064	0	84.6	55	106	0	0		

Sample ID **0412059-007BMSD** SampType: **MSD** TestCode: **SVOC_SOIL-** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **SVOC-2_041207B**
Client ID: **ZZZZZ** Batch ID: **12127** TestNo: **SW8270C** Analysis Date: **12/8/2004** SeqNo: **319421**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	5.496	0.54	5.479	0	100	62	100	6.017	9.05	33	
2-Chlorophenol	3.706	0.54	5.479	0	67.6	61	91	3.486	6.11	50	
1,4-Dichlorobenzene	1.673	0.54	2.74	0	61.1	55	90	1.558	7.15	27	
2,4-Dinitrotoluene	2.354	0.28	2.74	0	85.9	55	101	2.545	7.80	47	
4-Nitrophenol	3.572	2.6	5.479	0	65.2	53	123	3.842	7.27	50	

Sample ID **0412059-007BMSD** SampType: **MSD** TestCode: **SVOC_SOIL-** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **SVOC-2_041207B**
Client ID: **ZZZZZ** Batch ID: **12127** TestNo: **SW8270C** Analysis Date: **12/8/2004** SeqNo: **319421**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
N-Nitrosodi-n-propylamine	2.423	0.28	2.74	0	88.4	55	100	2.295	5.42	38	
Pentachlorophenol	2.15	2.6	5.479	0	39.2	40	120	2.754	0	47	JS
Phenol	4.401	0.54	5.479	0	80.3	60	91	4.336	1.49	35	
1,2,4-Trichlorobenzene	2.183	0.54	2.74	0	79.7	55	106	2.062	5.69	23	

Sample ID **0412059-008BMSD** SampType: **MSD** TestCode: **SVOC_SOIL-** Units: **mg/Kg-dry** Prep Date: **12/7/2004** Run ID: **SVOC-2_041207B**
Client ID: **ZZZZZ** Batch ID: **12127** TestNo: **SW8270C** Analysis Date: **12/8/2004** SeqNo: **319428**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	4.443	0.40	4.078	0	109	62	100	3.858	14.1	33	S
2-Chlorophenol	3.754	0.40	4.078	0	92.1	61	91	3.017	21.8	50	S
1,4-Dichlorobenzene	1.769	0.40	2.04	0	86.7	55	90	1.417	22.1	27	
2,4-Dinitrotoluene	1.733	0.21	2.04	0	85	55	101	1.416	20.1	47	
4-Nitrophenol	2.941	2.0	4.078	0	72.1	53	123	2.618	11.6	50	
N-Nitrosodi-n-propylamine	2.651	0.21	2.04	0	130	55	100	2.165	20.2	38	S
Pentachlorophenol	0.9311	2.0	4.078	0	22.8	40	120	0.7362	0	47	JS
Phenol	4.341	0.40	4.078	0	106	60	91	3.488	21.8	35	S
1,2,4-Trichlorobenzene	2.154	0.40	2.04	0	106	55	106	1.746	20.9	23	

CLIENT: Burns & McDonnell
Work Order: 0412085
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: 12105

Sample ID	0412059-007AMS	SampType:	MS	TestCode:	VOC_ENCOR	Units:	mg/Kg-dry	Prep Date:	12/3/2004	Run ID:	VOA-2_041208B
Client ID:	ZZZZZ	Batch ID:	12105	TestNo:	SW5035/8260			Analysis Date:	12/9/2004	SeqNo:	320114

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.1139	0.012	0.1191	0	95.7	70	130	0	0		
1,1,2,2-Tetrachloroethane	0.06805	0.012	0.1191	0	57.2	70	130	0	0		S
1,1,2-Trichloroethane	0.1022	0.012	0.1191	0	85.8	70	130	0	0		
1,1-Dichloroethane	0.1111	0.012	0.1191	0	93.3	70	130	0	0		
1,1-Dichloroethene	0.1068	0.012	0.1191	0	89.7	50	234	0	0		
1,2-Dichloroethane	0.0936	0.012	0.1191	0	78.6	70	130	0	0		
1,2-Dichloropropane	0.09865	0.012	0.1191	0	82.9	70	130	0	0		
2-Butanone	0.0912	0.024	0.1191	0	76.6	70	130	0	0		
2-Hexanone	0.09518	0.024	0.1191	0	79.9	70	130	0	0		
4-Methyl-2-pentanone	0.09303	0.024	0.1191	0	78.1	70	130	0	0		
Acetone	0.2836	0.060	0.1191	0.0299	213	70	130	0	0		S
Benzene	0.1053	0.012	0.1191	0.003606	85.4	37	151	0	0		
Bromodichloromethane	0.07474	0.012	0.1191	0	62.8	70	130	0	0		S
Bromoform	0.05958	0.012	0.1191	0	50	70	130	0	0		S
Bromomethane	0.07482	0.024	0.1191	0	62.8	70	130	0	0		S
Carbon disulfide	0.109	0.012	0.1191	0.00462	87.7	70	130	0	0		
Carbon tetrachloride	0.09756	0.012	0.1191	0	81.9	70	130	0	0		
Chlorobenzene	0.09146	0.012	0.1191	0	76.8	37	160	0	0		
Chloroethane	0.115	0.024	0.1191	0	96.6	70	130	0	0		
Chloroform	0.1072	0.012	0.1191	0	90.1	70	130	0	0		
Chloromethane	0.08641	0.024	0.1191	0	72.6	70	130	0	0		
cis-1,2-Dichloroethene	0.09294	0.012	0.1191	0	78.1	70	130	0	0		
cis-1,3-Dichloropropene	0.05881	0.012	0.1191	0	49.4	70	130	0	0		S
Dibromochloromethane	0.07948	0.012	0.1191	0	66.8	70	130	0	0		S
Ethylbenzene	0.1045	0.012	0.1191	0.001503	86.5	70	130	0	0		
Methyl tert-butyl ether	0.1197	0.012	0.1191	0	101	50	150	0	0		
Methylene chloride	0.09437	0.024	0.1191	0	79.3	70	130	0	0		
Styrene	0.07575	0.012	0.1191	0	63.6	70	130	0	0		S
Tetrachloroethene	0.1136	0.012	0.1191	0	95.4	70	130	0	0		
Toluene	0.09606	0.012	0.1191	0.001446	79.5	47	150	0	0		
trans-1,2-Dichloroethene	0.09394	0.012	0.1191	0	78.9	70	130	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

Sample ID **0412059-007AMS**	SampType: **MS**	TestCode: **VOC_ENCOR**	Units: **mg/Kg-dry**	Prep Date: **12/3/2004**	Run ID: **VOA-2_041208B**
Client ID: **ZZZZZ**	Batch ID: **12105**	TestNo: **SW5035/8260**		Analysis Date: **12/9/2004**	SeqNo: **320114**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	0.0692	0.012	0.1191	0	58.1	70	130	0	0		S
Trichloroethene	0.09213	0.012	0.1191	0	77.4	71	157	0	0		
Vinyl chloride	0.1074	0.012	0.1191	0	90.2	70	130	0	0		
Xylenes, Total	0.3171	0.024	0.3572	0.01151	85.6	70	130	0	0		

Sample ID **0412059-008AMS**	SampType: **MS**	TestCode: **VOC_ENCOR**	Units: **mg/Kg-dry**	Prep Date: **12/3/2004**	Run ID: **VOA-2_041208B**
Client ID: **ZZZZZ**	Batch ID: **12105**	TestNo: **SW5035/8260**		Analysis Date: **12/9/2004**	SeqNo: **320118**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.04885	0.0060	0.05987	0	81.6	70	130	0	0		
1,1,2,2-Tetrachloroethane	0.0265	0.0060	0.05987	0	44.3	70	130	0	0		S
1,1,2-Trichloroethane	0.03336	0.0060	0.05987	0	55.7	70	130	0	0		S
1,1-Dichloroethane	0.04198	0.0060	0.05987	0	70.1	70	130	0	0		
1,1-Dichloroethene	0.04539	0.0060	0.05987	0	75.8	50	234	0	0		
1,2-Dichloroethane	0.03387	0.0060	0.05987	0	56.6	70	130	0	0		S
1,2-Dichloropropane	0.03267	0.0060	0.05987	0	54.6	70	130	0	0		S
2-Butanone	0.04464	0.012	0.05987	0	74.6	70	130	0	0		
2-Hexanone	0.03301	0.012	0.05987	0	55.1	70	130	0	0		S
4-Methyl-2-pentanone	0.03599	0.012	0.05987	0	60.1	70	130	0	0		S
Acetone	0.07714	0.030	0.05987	0.01254	108	70	130	0	0		
Benzene	0.03734	0.0060	0.05987	0	62.4	37	151	0	0		
Bromodichloromethane	0.0208	0.0060	0.05987	0	34.7	70	130	0	0		S
Bromoform	0.01543	0.0060	0.05987	0	25.8	70	130	0	0		S
Bromomethane	0.03663	0.012	0.05987	0	61.2	70	130	0	0		S
Carbon disulfide	0.05982	0.0060	0.05987	0.0008626	98.5	70	130	0	0		
Carbon tetrachloride	0.04049	0.0060	0.05987	0	67.6	70	130	0	0		S
Chlorobenzene	0.02652	0.0060	0.05987	0	44.3	37	160	0	0		
Chloroethane	0.04971	0.012	0.05987	0	83	70	130	0	0		
Chloroform	0.04086	0.0060	0.05987	0	68.3	70	130	0	0		S
Chloromethane	0.04592	0.012	0.05987	0	76.7	70	130	0	0		
cis-1,2-Dichloroethene	0.03876	0.0060	0.05987	0	64.7	70	130	0	0		S

Sample ID **0412059-008AMS** SampType: **MS** TestCode: **VOC_ENCOR** Units: **mg/Kg-dry** Prep Date: **12/3/2004** Run ID: **VOA-2_041208B**
Client ID: **ZZZZZ** Batch ID: **12105** TestNo: **SW5035/8260** Analysis Date: **12/9/2004** SeqNo: **320118**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	0.02146	0.0060	0.05987	0	35.8	70	130	0	0		S
Dibromochloromethane	0.02158	0.0060	0.05987	0	36	70	130	0	0		S
Ethylbenzene	0.03603	0.0060	0.05987	0.001227	58.1	70	130	0	0		S
Methyl tert-butyl ether	0.05601	0.0060	0.05987	0	93.6	50	150	0	0		
Methylene chloride	0.04683	0.012	0.05987	0.001555	75.6	70	130	0	0		
Styrene	0.0213	0.0060	0.05987	0	35.6	70	130	0	0		S
Tetrachloroethene	0.04665	0.0060	0.05987	0	77.9	70	130	0	0		
Toluene	0.03339	0.0060	0.05987	0.002916	50.9	47	150	0	0		
trans-1,2-Dichloroethene	0.04502	0.0060	0.05987	0	75.2	70	130	0	0		
trans-1,3-Dichloropropene	0.02362	0.0060	0.05987	0	39.5	70	130	0	0		S
Trichloroethene	0.03397	0.0060	0.05987	0	56.7	71	157	0	0		S
Vinyl chloride	0.05528	0.0060	0.05987	0	92.3	70	130	0	0		
Xylenes, Total	0.1103	0.012	0.1796	0.005601	58.3	70	130	0	0		S

Sample ID **0412059-007AMSD** SampType: **MSD** TestCode: **VOC_ENCOR** Units: **mg/Kg-dry** Prep Date: **12/3/2004** Run ID: **VOA-2_041208B**
Client ID: **ZZZZZ** Batch ID: **12105** TestNo: **SW5035/8260** Analysis Date: **12/9/2004** SeqNo: **320115**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.1064	0.011	0.1102	0	96.6	70	130	0.09293	13.6	25	
1,1,2,2-Tetrachloroethane	0.06033	0.011	0.1102	0	54.8	70	130	0.06	0.556	25	S
1,1,2-Trichloroethane	0.08884	0.011	0.1102	0	80.6	70	130	0.0812	8.99	25	
1,1-Dichloroethane	0.1008	0.011	0.1102	0	91.5	70	130	0.0895	11.9	25	
1,1-Dichloroethene	0.1007	0.011	0.1102	0	91.4	50	234	0.08104	21.6	25	
1,2-Dichloroethane	0.08587	0.011	0.1102	0	77.9	70	130	0.07566	12.6	25	
1,2-Dichloropropane	0.09252	0.011	0.1102	0	84	70	130	0.08242	11.5	25	
2-Butanone	0.07888	0.022	0.1102	0	71.6	70	130	0.07562	4.23	25	
2-Hexanone	0.09301	0.022	0.1102	0	84.4	70	130	0.08263	11.8	25	
4-Methyl-2-pentanone	0.0918	0.022	0.1102	0	83.3	70	130	0.08269	10.4	25	
Acetone	0.2253	0.055	0.1102	0.0299	177	70	130	0.2049	9.46	25	S
Benzene	0.1002	0.011	0.1102	0.003606	87.7	37	151	0.08886	12.0	25	
Bromodichloromethane	0.06249	0.011	0.1102	0	56.7	70	130	0.05501	12.7	25	S

Sample ID **0412059-007AMSD** SampType: **MSD** TestCode: **VOC_ENCOR** Units: **mg/Kg-dry** Prep Date: **12/3/2004** Run ID: **VOA-2_041208B**
Client ID: **ZZZZZ** Batch ID: **12105** TestNo: **SW5035/8260** Analysis Date: **12/9/2004** SeqNo: **320115**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	0.04685	0.011	0.1102	0	42.5	70	130	0.04115	12.9	25	S
Bromomethane	0.06765	0.022	0.1102	0	61.4	70	130	0.05458	21.4	25	S
Carbon disulfide	0.1049	0.011	0.1102	0.00462	91	70	130	0.08503	20.9	25	
Carbon tetrachloride	0.08752	0.011	0.1102	0	79.4	70	130	0.06717	26.3	25	R
Chlorobenzene	0.07862	0.011	0.1102	0	71.4	37	160	0.0745	5.38	25	
Chloroethane	0.1009	0.022	0.1102	0	91.6	70	130	0.08799	13.7	25	
Chloroform	0.09946	0.011	0.1102	0	90.3	70	130	0.0855	15.1	25	
Chloromethane	0.07921	0.022	0.1102	0	71.9	70	130	0.06897	13.8	25	
cis-1,2-Dichloroethene	0.08353	0.011	0.1102	0	75.8	70	130	0.07402	12.1	25	
cis-1,3-Dichloropropene	0.05584	0.011	0.1102	0	50.7	70	130	0.04535	20.7	25	S
Dibromochloromethane	0.06342	0.011	0.1102	0	57.6	70	130	0.0564	11.7	25	S
Ethylbenzene	0.09446	0.011	0.1102	0.001503	84.4	70	130	0.08441	11.2	25	
Methyl tert-butyl ether	0.1129	0.011	0.1102	0	102	50	150	0.0993	12.8	0	
Methylene chloride	0.09217	0.022	0.1102	0	83.7	70	130	0.08054	13.5	25	
Styrene	0.06538	0.011	0.1102	0	59.3	70	130	0.06482	0.860	25	S
Tetrachloroethene	0.1036	0.011	0.1102	0	94.1	70	130	0.09072	13.3	25	
Toluene	0.08994	0.011	0.1102	0.001446	80.3	47	150	0.07849	13.6	25	
trans-1,2-Dichloroethene	0.08717	0.011	0.1102	0	79.1	70	130	0.07214	18.9	25	
trans-1,3-Dichloropropene	0.05903	0.011	0.1102	0	53.6	70	130	0.05391	9.06	25	S
Trichloroethene	0.08887	0.011	0.1102	0	80.7	71	157	0.07408	18.1	25	
Vinyl chloride	0.1015	0.011	0.1102	0	92.1	70	130	0.0836	19.3	25	
Xylenes, Total	0.2875	0.022	0.3305	0.01151	83.5	70	130	0.2641	8.45	25	

Sample ID **0412059-008AMSD** SampType: **MSD** TestCode: **VOC_ENCOR** Units: **mg/Kg-dry** Prep Date: **12/3/2004** Run ID: **VOA-2_041208B**
Client ID: **ZZZZZ** Batch ID: **12105** TestNo: **SW5035/8260** Analysis Date: **12/9/2004** SeqNo: **320119**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.05033	0.0058	0.05803	0	86.7	70	130	0.04885	2.99	25	
1,1,2,2-Tetrachloroethane	0.02617	0.0058	0.05803	0	45.1	70	130	0.0265	1.24	25	S
1,1,2-Trichloroethane	0.03335	0.0058	0.05803	0	57.5	70	130	0.03336	0.0108	25	S
1,1-Dichloroethane	0.04169	0.0058	0.05803	0	71.8	70	130	0.04198	0.697	25	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

ANALYTICAL QC SUMMARY REPORT

BatchID: 12105

Sample ID **0412059-008AMSD** SampType: **MSD** TestCode: **VOC_ENCOR** Units: **mg/Kg-dry** Prep Date: **12/3/2004** Run ID: **VOA-2_041208B**
Client ID: **ZZZZZ** Batch ID: **12105** TestNo: **SW5035/8260** Analysis Date: **12/9/2004** SeqNo: **320119**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.04865	0.0058	0.05803	0	83.8	50	234	0.04539	6.93	25	
1,2-Dichloroethane	0.03205	0.0058	0.05803	0	55.2	70	130	0.03387	5.52	25	S
1,2-Dichloropropane	0.03155	0.0058	0.05803	0	54.4	70	130	0.03267	3.49	25	S
2-Butanone	0.03873	0.012	0.05803	0	66.7	70	130	0.04464	14.2	25	S
2-Hexanone	0.03158	0.012	0.05803	0	54.4	70	130	0.03301	4.43	25	S
4-Methyl-2-pentanone	0.03449	0.012	0.05803	0	59.4	70	130	0.03599	4.26	25	S
Acetone	0.08128	0.029	0.05803	0.01254	118	70	130	0.07714	5.23	25	
Benzene	0.03737	0.0058	0.05803	0	64.4	37	151	0.03734	0.0663	25	
Bromodichloromethane	0.01929	0.0058	0.05803	0	33.2	70	130	0.0208	7.53	25	S
Bromoform	0.01174	0.0058	0.05803	0	20.2	70	130	0.01543	27.1	25	SR
Bromomethane	0.03266	0.012	0.05803	0	56.3	70	130	0.03663	11.5	25	S
Carbon disulfide	0.0574	0.0058	0.05803	0.0008626	97.4	70	130	0.05982	4.13	25	
Carbon tetrachloride	0.04207	0.0058	0.05803	0	72.5	70	130	0.04049	3.82	25	
Chlorobenzene	0.02915	0.0058	0.05803	0	50.2	37	160	0.02652	9.46	25	
Chloroethane	0.05392	0.012	0.05803	0	92.9	70	130	0.04971	8.12	25	
Chloroform	0.03772	0.0058	0.05803	0	65	70	130	0.04086	8.01	25	S
Chloromethane	0.0478	0.012	0.05803	0	82.4	70	130	0.04592	4.02	25	
cis-1,2-Dichloroethene	0.03565	0.0058	0.05803	0	61.4	70	130	0.03876	8.35	25	S
cis-1,3-Dichloropropene	0.018	0.0058	0.05803	0	31	70	130	0.02146	17.5	25	S
Dibromochloromethane	0.01889	0.0058	0.05803	0	32.6	70	130	0.02158	13.3	25	S
Ethylbenzene	0.04374	0.0058	0.05803	0.001227	73.3	70	130	0.03603	19.3	25	
Methyl tert-butyl ether	0.05752	0.0058	0.05803	0	99.1	50	150	0.05601	2.65	0	
Methylene chloride	0.04676	0.012	0.05803	0.001555	77.9	70	130	0.04683	0.148	25	
Styrene	0.02318	0.0058	0.05803	0	39.9	70	130	0.0213	8.43	25	S
Tetrachloroethene	0.05571	0.0058	0.05803	0	96	70	130	0.04665	17.7	25	
Toluene	0.03407	0.0058	0.05803	0.002916	53.7	47	150	0.03339	2.02	25	
trans-1,2-Dichloroethene	0.04447	0.0058	0.05803	0	76.6	70	130	0.04502	1.22	25	
trans-1,3-Dichloropropene	0.02111	0.0058	0.05803	0	36.4	70	130	0.02362	11.2	25	S
Trichloroethene	0.03299	0.0058	0.05803	0	56.9	71	157	0.03397	2.91	25	S
Vinyl chloride	0.05988	0.0058	0.05803	0	103	70	130	0.05528	7.99	25	
Xylenes, Total	0.1298	0.012	0.1741	0.005601	71.4	70	130	0.1103	16.2	25	

Qualifiers:
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CLIENT: Burns & McDonnell
Work Order: 0412085
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15606

Sample ID **VBLK120804a-2** SampType: **MBLK** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041208B**
Client ID: **ZZZZZ** Batch ID: **R15606** TestNo: **SW5035/8260** Analysis Date: **12/8/2004** SeqNo: **320109**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.0050									
1,1,2,2-Tetrachloroethane	ND	0.0050									
1,1,2-Trichloroethane	ND	0.0050									
1,1-Dichloroethane	ND	0.0050									
1,1-Dichloroethene	ND	0.0050									
1,2-Dichloroethane	ND	0.0050									
1,2-Dichloropropane	ND	0.0050									
2-Butanone	ND	0.010									
2-Hexanone	ND	0.010									
4-Methyl-2-pentanone	ND	0.010									
Acetone	ND	0.025									
Benzene	ND	0.0050									
Bromodichloromethane	ND	0.0050									
Bromoform	ND	0.0050									
Bromomethane	ND	0.010									
Carbon disulfide	ND	0.0050									
Carbon tetrachloride	ND	0.0050									
Chlorobenzene	ND	0.0050									
Chloroethane	ND	0.010									
Chloroform	ND	0.0050									
Chloromethane	ND	0.010									
cis-1,2-Dichloroethene	ND	0.0050									
cis-1,3-Dichloropropene	ND	0.0050									
Dibromochloromethane	ND	0.0050									
Ethylbenzene	ND	0.0050									
Methyl tert-butyl ether	ND	0.0050									
Methylene chloride	0.00436	0.010									J
Styrene	ND	0.0050									
Tetrachloroethene	ND	0.0050									
Toluene	ND	0.0050									
trans-1,2-Dichloroethene	ND	0.0050									

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B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412085
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15606

Sample ID	VBLK120804a-2	SampType:	MBLK	TestCode:	VOC_ENCOR	Units:	mg/Kg	Prep Date:		Run ID:	VOA-2_041208B
Client ID:	ZZZZZ	Batch ID:	R15606	TestNo:	SW5035/8260			Analysis Date:	12/8/2004	SeqNo:	320109

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	ND	0.0050									
Trichloroethene	ND	0.0050									
Vinyl chloride	ND	0.0050									
Xylenes, Total	ND	0.010									

Sample ID	VLCS120804A-2	SampType:	LCS	TestCode:	VOC_ENCOR	Units:	mg/Kg	Prep Date:		Run ID:	VOA-2_041208B
Client ID:	ZZZZZ	Batch ID:	R15606	TestNo:	SW5035/8260			Analysis Date:	12/8/2004	SeqNo:	320110

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.04839	0.0050	0.05	0	96.8	70	130	0	0		
1,1,2,2-Tetrachloroethane	0.04354	0.0050	0.05	0	87.1	70	130	0	0		
1,1,2-Trichloroethane	0.0486	0.0050	0.05	0	97.2	70	130	0	0		
1,1-Dichloroethane	0.04704	0.0050	0.05	0	94.1	70	130	0	0		
1,1-Dichloroethene	0.04583	0.0050	0.05	0	91.7	70	130	0	0		
1,2-Dichloroethane	0.04964	0.0050	0.05	0	99.3	70	130	0	0		
1,2-Dichloropropane	0.04561	0.0050	0.05	0	91.2	70	130	0	0		
2-Butanone	0.04875	0.010	0.05	0	97.5	70	130	0	0		
2-Hexanone	0.04437	0.010	0.05	0	88.7	70	130	0	0		
4-Methyl-2-pentanone	0.04491	0.010	0.05	0	89.8	70	130	0	0		
Acetone	0.05825	0.025	0.05	0	116	50	150	0	0		
Benzene	0.04706	0.0050	0.05	0	94.1	70	130	0	0		
Bromodichloromethane	0.04388	0.0050	0.05	0	87.8	70	130	0	0		
Bromoform	0.04745	0.0050	0.05	0	94.9	70	130	0	0		
Bromomethane	0.03668	0.010	0.05	0	73.4	70	130	0	0		
Carbon disulfide	0.06115	0.0050	0.05	0	122	70	130	0	0		
Carbon tetrachloride	0.04788	0.0050	0.05	0	95.8	70	130	0	0		
Chlorobenzene	0.04764	0.0050	0.05	0	95.3	70	130	0	0		
Chloroethane	0.04616	0.010	0.05	0	92.3	70	130	0	0		
Chloroform	0.04913	0.0050	0.05	0	98.3	70	130	0	0		
Chloromethane	0.03657	0.010	0.05	0	73.1	70	130	0	0		
cis-1,2-Dichloroethene	0.04949	0.0050	0.05	0	99	70	130	0	0		

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Sample ID **VLCS120804A-2**	SampType: **LCS**	TestCode: **VOC_ENCOR**	Units: **mg/Kg**	Prep Date:	Run ID: **VOA-2_041208B**
Client ID: **ZZZZZ**	Batch ID: **R15606**	TestNo: **SW5035/8260**		Analysis Date: **12/8/2004**	SeqNo: **320110**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	0.04648	0.0050	0.05	0	93	70	130	0	0		
Dibromochloromethane	0.04848	0.0050	0.05	0	97	70	130	0	0		
Ethylbenzene	0.04738	0.0050	0.05	0	94.8	70	130	0	0		
Methyl tert-butyl ether	0.04914	0.0050	0.05	0	98.3	50	150	0	0		
Methylene chloride	0.04532	0.010	0.05	0.00436	81.9	70	130	0	0		
Styrene	0.045	0.0050	0.05	0	90	70	130	0	0		
Tetrachloroethene	0.05087	0.0050	0.05	0	102	70	130	0	0		
Toluene	0.04651	0.0050	0.05	0	93	70	130	0	0		
trans-1,2-Dichloroethene	0.04986	0.0050	0.05	0	99.7	70	130	0	0		
trans-1,3-Dichloropropene	0.05239	0.0050	0.05	0	105	70	130	0	0		
Trichloroethene	0.04827	0.0050	0.05	0	96.5	70	130	0	0		
Vinyl chloride	0.04699	0.0050	0.05	0	94	70	130	0	0		
Xylenes, Total	0.1462	0.010	0.15	0	97.5	70	130	0	0		

Sample ID **VLCSD120804A-2**	SampType: **LCSD**	TestCode: **VOC_ENCOR**	Units: **mg/Kg**	Prep Date:	Run ID: **VOA-2_041208B**
Client ID: **ZZZZZ**	Batch ID: **R15606**	TestNo: **SW5035/8260**		Analysis Date: **12/8/2004**	SeqNo: **320111**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.04828	0.0050	0.05	0	96.6	70	130	0.04839	0.228	20	
1,1,2,2-Tetrachloroethane	0.04338	0.0050	0.05	0	86.8	70	130	0.04354	0.368	20	
1,1,2-Trichloroethane	0.04782	0.0050	0.05	0	95.6	70	130	0.0486	1.62	20	
1,1-Dichloroethane	0.04822	0.0050	0.05	0	96.4	70	130	0.04704	2.48	20	
1,1-Dichloroethene	0.04525	0.0050	0.05	0	90.5	70	130	0.04583	1.27	20	
1,2-Dichloroethane	0.04803	0.0050	0.05	0	96.1	70	130	0.04964	3.30	20	
1,2-Dichloropropane	0.04651	0.0050	0.05	0	93	70	130	0.04561	1.95	20	
2-Butanone	0.04659	0.010	0.05	0	93.2	70	130	0.04875	4.53	20	
2-Hexanone	0.04416	0.010	0.05	0	88.3	70	130	0.04437	0.474	20	
4-Methyl-2-pentanone	0.04471	0.010	0.05	0	89.4	70	130	0.04491	0.446	20	
Acetone	0.05222	0.025	0.05	0	104	50	150	0.05825	10.9	20	
Benzene	0.04577	0.0050	0.05	0	91.5	70	130	0.04706	2.78	20	
Bromodichloromethane	0.04255	0.0050	0.05	0	85.1	70	130	0.04388	3.08	20	

CLIENT: Burns & McDonnell
Work Order: 0412085
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15606

Sample ID **VLCSD120804A-2** SampType: **LCSD** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041208B**
Client ID: **ZZZZZ** Batch ID: **R15606** TestNo: **SW5035/8260** Analysis Date: **12/8/2004** SeqNo: **320111**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	0.04786	0.0050	0.05	0	95.7	70	130	0.04745	0.860	20	
Bromomethane	0.03691	0.010	0.05	0	73.8	70	130	0.03668	0.625	20	
Carbon disulfide	0.0626	0.0050	0.05	0	125	70	130	0.06115	2.34	20	
Carbon tetrachloride	0.04784	0.0050	0.05	0	95.7	70	130	0.04788	0.0836	20	
Chlorobenzene	0.04848	0.0050	0.05	0	97	70	130	0.04764	1.75	20	
Chloroethane	0.04874	0.010	0.05	0	97.5	70	130	0.04616	5.44	20	
Chloroform	0.05087	0.0050	0.05	0	102	70	130	0.04913	3.48	20	
Chloromethane	0.03826	0.010	0.05	0	76.5	70	130	0.03657	4.52	20	
cis-1,2-Dichloroethene	0.04804	0.0050	0.05	0	96.1	70	130	0.04949	2.97	20	
cis-1,3-Dichloropropene	0.04613	0.0050	0.05	0	92.3	70	130	0.04648	0.756	20	
Dibromochloromethane	0.04855	0.0050	0.05	0	97.1	70	130	0.04848	0.144	20	
Ethylbenzene	0.04731	0.0050	0.05	0	94.6	70	130	0.04738	0.148	20	
Methyl tert-butyl ether	0.04821	0.0050	0.05	0	96.4	50	150	0.04914	1.91	20	
Methylene chloride	0.04605	0.010	0.05	0.00436	83.4	70	130	0.04532	1.60	20	
Styrene	0.04678	0.0050	0.05	0	93.6	70	130	0.045	3.88	20	
Tetrachloroethene	0.04885	0.0050	0.05	0	97.7	70	130	0.05087	4.05	20	
Toluene	0.04734	0.0050	0.05	0	94.7	70	130	0.04651	1.77	20	
trans-1,2-Dichloroethene	0.04728	0.0050	0.05	0	94.6	70	130	0.04986	5.31	20	
trans-1,3-Dichloropropene	0.05236	0.0050	0.05	0	105	70	130	0.05239	0.0573	20	
Trichloroethene	0.04631	0.0050	0.05	0	92.6	70	130	0.04827	4.14	20	
Vinyl chloride	0.04695	0.0050	0.05	0	93.9	70	130	0.04699	0.0852	20	
Xylenes, Total	0.1471	0.010	0.15	0	98.1	70	130	0.1462	0.586	20	

Qualifiers:
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H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412085
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15610

Sample ID **VBLK120904-2** SampType: **MBLK** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041209A**
Client ID: **ZZZZZ** Batch ID: **R15610** TestNo: **SW5035/8260** Analysis Date: **12/9/2004** SeqNo: **320200**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.0050									
1,1,2,2-Tetrachloroethane	ND	0.0050									
1,1,2-Trichloroethane	ND	0.0050									
1,1-Dichloroethane	ND	0.0050									
1,1-Dichloroethene	ND	0.0050									
1,2-Dichloroethane	ND	0.0050									
1,2-Dichloropropane	ND	0.0050									
2-Butanone	ND	0.010									
2-Hexanone	ND	0.010									
4-Methyl-2-pentanone	ND	0.010									
Acetone	ND	0.025									
Benzene	ND	0.0050									
Bromodichloromethane	ND	0.0050									
Bromoform	ND	0.0050									
Bromomethane	ND	0.010									
Carbon disulfide	ND	0.0050									
Carbon tetrachloride	ND	0.0050									
Chlorobenzene	ND	0.0050									
Chloroethane	ND	0.010									
Chloroform	ND	0.0050									
Chloromethane	ND	0.010									
cis-1,2-Dichloroethene	ND	0.0050									
cis-1,3-Dichloropropene	ND	0.0050									
Dibromochloromethane	ND	0.0050									
Ethylbenzene	ND	0.0050									
Methyl tert-butyl ether	ND	0.0050									
Methylene chloride	0.00238	0.010									J
Styrene	ND	0.0050									
Tetrachloroethene	ND	0.0050									
Toluene	ND	0.0050									
trans-1,2-Dichloroethene	ND	0.0050									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

Sample ID	VBLK120904-2	SampType:	MBLK	TestCode:	VOC_ENCOR	Units:	mg/Kg	Prep Date:		Run ID:	VOA-2_041209A
Client ID:	ZZZZZ	Batch ID:	R15610	TestNo:	SW5035/8260			Analysis Date:	12/9/2004	SeqNo:	320200

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	ND	0.0050									
Trichloroethene	ND	0.0050									
Vinyl chloride	ND	0.0050									
Xylenes, Total	ND	0.010									

Sample ID	VLCS120904-2	SampType:	LCS	TestCode:	VOC_ENCOR	Units:	mg/Kg	Prep Date:		Run ID:	VOA-2_041209A
Client ID:	ZZZZZ	Batch ID:	R15610	TestNo:	SW5035/8260			Analysis Date:	12/9/2004	SeqNo:	320201

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.05141	0.0050	0.05	0	103	70	130	0	0		
1,1,2,2-Tetrachloroethane	0.04527	0.0050	0.05	0	90.5	70	130	0	0		
1,1,2-Trichloroethane	0.05031	0.0050	0.05	0	101	70	130	0	0		
1,1-Dichloroethane	0.04821	0.0050	0.05	0	96.4	70	130	0	0		
1,1-Dichloroethene	0.0462	0.0050	0.05	0	92.4	70	130	0	0		
1,2-Dichloroethane	0.05042	0.0050	0.05	0	101	70	130	0	0		
1,2-Dichloropropane	0.04786	0.0050	0.05	0	95.7	70	130	0	0		
2-Butanone	0.04835	0.010	0.05	0	96.7	70	130	0	0		
2-Hexanone	0.04643	0.010	0.05	0	92.9	70	130	0	0		
4-Methyl-2-pentanone	0.04772	0.010	0.05	0	95.4	70	130	0	0		
Acetone	0.06134	0.025	0.05	0	123	50	150	0	0		
Benzene	0.04785	0.0050	0.05	0	95.7	70	130	0	0		
Bromodichloromethane	0.04487	0.0050	0.05	0	89.7	70	130	0	0		
Bromoform	0.04953	0.0050	0.05	0	99.1	70	130	0	0		
Bromomethane	0.03888	0.010	0.05	0	77.8	70	130	0	0		
Carbon disulfide	0.06128	0.0050	0.05	0	123	70	130	0	0		
Carbon tetrachloride	0.05034	0.0050	0.05	0	101	70	130	0	0		
Chlorobenzene	0.0495	0.0050	0.05	0	99	70	130	0	0		
Chloroethane	0.04771	0.010	0.05	0	95.4	70	130	0	0		
Chloroform	0.05079	0.0050	0.05	0	102	70	130	0	0		
Chloromethane	0.03919	0.010	0.05	0	78.4	70	130	0	0		
cis-1,2-Dichloroethene	0.04973	0.0050	0.05	0	99.5	70	130	0	0		

CLIENT: Burns & McDonnell
Work Order: 0412085
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15610

Sample ID **VLCS120904-2** SampType: **LCS** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041209A**
Client ID: **ZZZZZ** Batch ID: **R15610** TestNo: **SW5035/8260** Analysis Date: **12/9/2004** SeqNo: **320201**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	0.04831	0.0050	0.05	0	96.6	70	130	0	0		
Dibromochloromethane	0.04942	0.0050	0.05	0	98.8	70	130	0	0		
Ethylbenzene	0.04878	0.0050	0.05	0	97.6	70	130	0	0		
Methyl tert-butyl ether	0.05233	0.0050	0.05	0	105	50	150	0	0		
Methylene chloride	0.04942	0.010	0.05	0.00238	94.1	70	130	0	0		
Styrene	0.04637	0.0050	0.05	0	92.7	70	130	0	0		
Tetrachloroethene	0.05241	0.0050	0.05	0	105	70	130	0	0		
Toluene	0.04803	0.0050	0.05	0	96.1	70	130	0	0		
trans-1,2-Dichloroethene	0.05012	0.0050	0.05	0	100	70	130	0	0		
trans-1,3-Dichloropropene	0.05602	0.0050	0.05	0	112	70	130	0	0		
Trichloroethene	0.0509	0.0050	0.05	0	102	70	130	0	0		
Vinyl chloride	0.04874	0.0050	0.05	0	97.5	70	130	0	0		
Xylenes, Total	0.1523	0.010	0.15	0	102	70	130	0	0		

Sample ID **VLCSD120904-2** SampType: **LCSD** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041209A**
Client ID: **ZZZZZ** Batch ID: **R15610** TestNo: **SW5035/8260** Analysis Date: **12/9/2004** SeqNo: **320202**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0508	0.0050	0.05	0	102	70	130	0.05141	1.19	20	
1,1,2,2-Tetrachloroethane	0.04109	0.0050	0.05	0	82.2	70	130	0.04527	9.68	20	
1,1,2-Trichloroethane	0.04987	0.0050	0.05	0	99.7	70	130	0.05031	0.878	20	
1,1-Dichloroethane	0.04885	0.0050	0.05	0	97.7	70	130	0.04821	1.32	20	
1,1-Dichloroethene	0.04896	0.0050	0.05	0	97.9	70	130	0.0462	5.80	20	
1,2-Dichloroethane	0.04869	0.0050	0.05	0	97.4	70	130	0.05042	3.49	20	
1,2-Dichloropropane	0.04556	0.0050	0.05	0	91.1	70	130	0.04786	4.92	20	
2-Butanone	0.05002	0.010	0.05	0	100	70	130	0.04835	3.40	20	
2-Hexanone	0.04651	0.010	0.05	0	93	70	130	0.04643	0.172	20	
4-Methyl-2-pentanone	0.04368	0.010	0.05	0	87.4	70	130	0.04772	8.84	20	
Acetone	0.06572	0.025	0.05	0	131	50	150	0.06134	6.89	20	
Benzene	0.04798	0.0050	0.05	0	96	70	130	0.04785	0.271	20	
Bromodichloromethane	0.04434	0.0050	0.05	0	88.7	70	130	0.04487	1.19	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412085
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15610

Sample ID **VLCSD120904-2** SampType: **LCSD** TestCode: **VOC_ENCOR** Units: **mg/Kg** Prep Date: Run ID: **VOA-2_041209A**
Client ID: **ZZZZZ** Batch ID: **R15610** TestNo: **SW5035/8260** Analysis Date: **12/9/2004** SeqNo: **320202**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	0.04802	0.0050	0.05	0	96	70	130	0.04953	3.10	20	
Bromomethane	0.03949	0.010	0.05	0	79	70	130	0.03888	1.56	20	
Carbon disulfide	0.06155	0.0050	0.05	0	123	70	130	0.06128	0.440	20	
Carbon tetrachloride	0.04969	0.0050	0.05	0	99.4	70	130	0.05034	1.30	20	
Chlorobenzene	0.04982	0.0050	0.05	0	99.6	70	130	0.0495	0.644	20	
Chloroethane	0.0505	0.010	0.05	0	101	70	130	0.04771	5.68	20	
Chloroform	0.05168	0.0050	0.05	0	103	70	130	0.05079	1.74	20	
Chloromethane	0.03963	0.010	0.05	0	79.3	70	130	0.03919	1.12	20	
cis-1,2-Dichloroethene	0.05004	0.0050	0.05	0	100	70	130	0.04973	0.621	20	
cis-1,3-Dichloropropene	0.04827	0.0050	0.05	0	96.5	70	130	0.04831	0.0828	20	
Dibromochloromethane	0.05138	0.0050	0.05	0	103	70	130	0.04942	3.89	20	
Ethylbenzene	0.05031	0.0050	0.05	0	101	70	130	0.04878	3.09	20	
Methyl tert-butyl ether	0.0521	0.0050	0.05	0	104	50	150	0.05233	0.440	20	
Methylene chloride	0.04734	0.010	0.05	0.00238	89.9	70	130	0.04942	4.30	20	
Styrene	0.04782	0.0050	0.05	0	95.6	70	130	0.04637	3.08	20	
Tetrachloroethene	0.05478	0.0050	0.05	0	110	70	130	0.05241	4.42	20	
Toluene	0.04793	0.0050	0.05	0	95.9	70	130	0.04803	0.208	20	
trans-1,2-Dichloroethene	0.05186	0.0050	0.05	0	104	70	130	0.05012	3.41	20	
trans-1,3-Dichloropropene	0.05329	0.0050	0.05	0	107	70	130	0.05602	4.99	20	
Trichloroethene	0.0516	0.0050	0.05	0	103	70	130	0.0509	1.37	20	
Vinyl chloride	0.05094	0.0050	0.05	0	102	70	130	0.04874	4.41	20	
Xylenes, Total	0.152	0.010	0.15	0	101	70	130	0.1523	0.158	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

CLIENT: Burns & McDonnell
Work Order: 0412085
Project: 32088, Willow Street Station- General Iron

ANALYTICAL QC SUMMARY REPORT

BatchID: R15540

Sample ID	**MBLK2**	SampType:	**MBLK**	TestCode:	**PMOIST**	Units:	**wt%**	Prep Date:	**12/6/2004**	Run ID:	**BALANCE_041206C**
Client ID:	**ZZZZZ**	Batch ID:	**R15540**	TestNo:	**D2974**			Analysis Date:	**12/7/2004**	SeqNo:	**318596**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	ND	0.01000									*

Sample ID	**LCS-S2**	SampType:	**LCS**	TestCode:	**PMOIST**	Units:	**wt%**	Prep Date:	**12/6/2004**	Run ID:	**BALANCE_041206C**
Client ID:	**ZZZZZ**	Batch ID:	**R15540**	TestNo:	**D2974**			Analysis Date:	**12/7/2004**	SeqNo:	**318597**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	4.39	0.01000	5	0	87.8	80	120	0	0		*

Sample ID	**LCS-W2**	SampType:	**LCS**	TestCode:	**PMOIST**	Units:	**wt%**	Prep Date:	**12/6/2004**	Run ID:	**BALANCE_041206C**
Client ID:	**ZZZZZ**	Batch ID:	**R15540**	TestNo:	**D2974**			Analysis Date:	**12/7/2004**	SeqNo:	**318598**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	99.82	0.01000	99.8	0	100	80	120	0	0		*

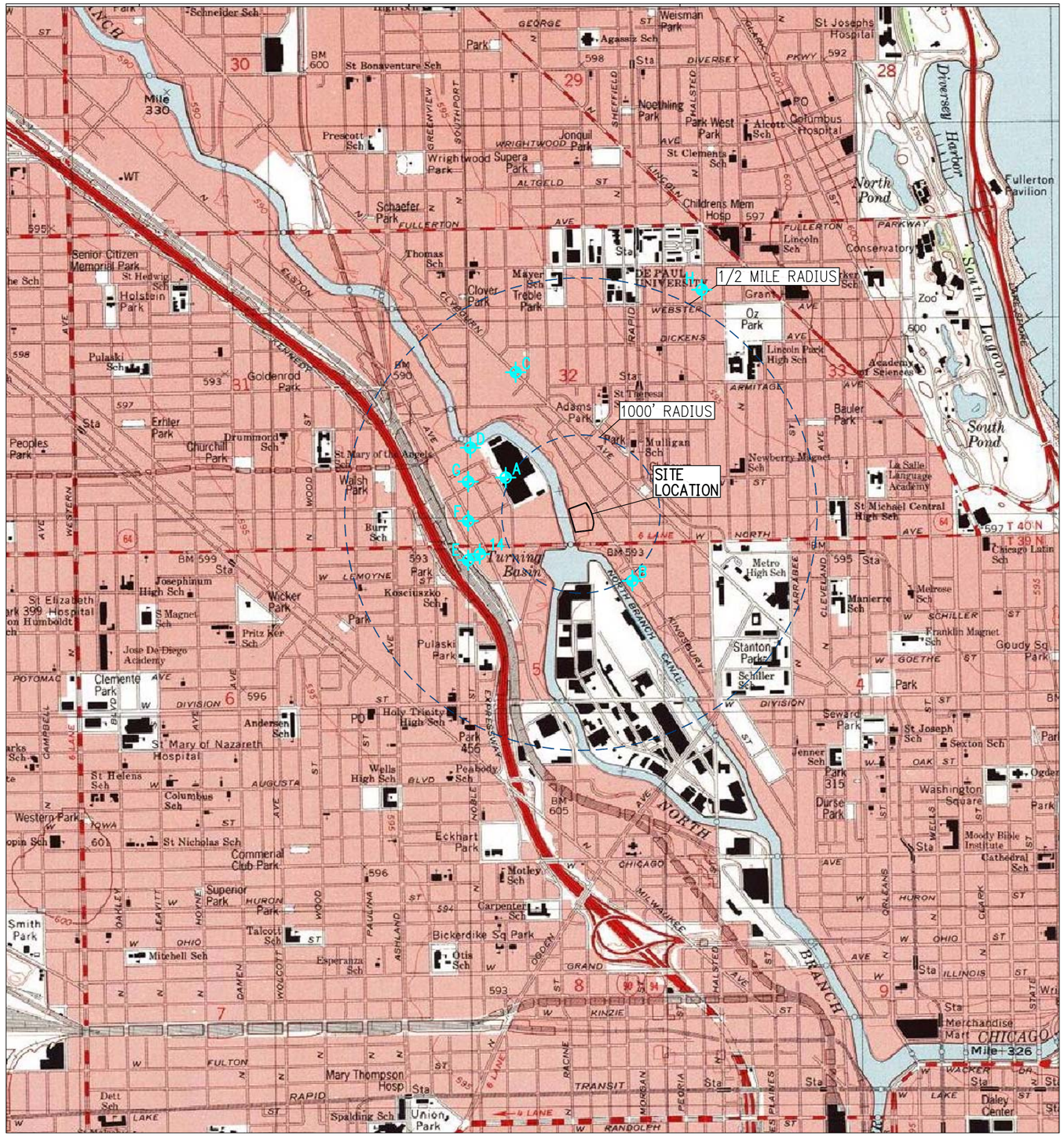
Sample ID	**0412091-002B DUP**	SampType:	**DUP**	TestCode:	**PMOIST**	Units:	**wt%**	Prep Date:	**12/6/2004**	Run ID:	**BALANCE_041206C**
Client ID:	**ZZZZZ**	Batch ID:	**R15540**	TestNo:	**D2974**			Analysis Date:	**12/7/2004**	SeqNo:	**318634**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	11.51	0.01000	0	0	0	0	0	10.44	9.75	20	*

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blanl

APPENDIX D
WATER WELL SURVEY INFORMATION
THE FORMER WILLOW STREET STATION
MANUFACTURED GAS PLANT SITE,
1640 NORTH KINGSBURY PORTION

FIGURE



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I:\PEOPLES GAS\WILLOW GENERAL IRON-32088\CAD\BID\SI ROR RAP\WELL LOCATION

LEGEND

APPROXIMATE WELL LOCATION

WELL LOCATION	WELL ID	OWNER
A	415446087393901	UNKNOWN
B*	GIL 00020627 GIL 00020628 033853	UNKNOWN UNKNOWN PRIMA PRODUCTS
C*	034176 029507 034182 034186 029497 034187 034190 034162 034163	GUTMANN TANNERY CO. BIRK BREWING CO. JEFFERSON ICE CO. PLANT #5 NORTHWEST BREWERY ATLANTIC BREWING CO. PETER HAND BREWERY CO. SPIELMAN BROS. VINEGAR WORK BIRK BREWING CO. BIRK BREWING CO.
D	415455087394501	UNKNOWN
E	0369697	SIPI METALS
F	0369692 0369693 0369695 0369696	SIPI METALS SIPI METALS SIPI METALS SIPI METALS
G	0369694	SIPI METALS
H	034173	FP SMITH WIRE & IRON WORKS
14	033819	CHICAGO BREWERY CO.

NOTES:

1. * BASED ON AVAILABLE INFORMATION, SEVERAL WELLS MAY EXIST AT WELL LOCATIONS B & C.
2. DATA OBTAINED FROM:
   ILLINOIS STATE WATER SURVEY, ILLINOIS STATE GEOLOGICAL SURVEY, ILLINOIS DEPARTMENT OF PUBLIC HEALTH, CITY OF CHICAGO DEPARTMENT OF PUBLIC HEALTH, COOK COUNTY DEPARTMENT OF PUBLIC HEALTH, CITY OF CHICAGO–DEPARTMENT OF WATER QUALITY, ILLINOIS EPA–BUREAU OF WATER (2005) AND ENVIRONMENTAL DATA–RESOURCES (2003).

NORTH

2000 0 2000 4000

APPROXIMATE SCALE

Burns & McDonnell SINCE 1898

THE PEOPLES GAS LIGHT AND COKE COMPANY
CHICAGO, ILLINOIS

Figure D–1

SURROUNDING AREA WELL LOCATION MAP
FORMER WILLOW STREET STATION
1640 NORTH KINGSBURY PORTION
CHICAGO, ILLINOIS

ILLINOIS STATE WATER SURVEY

ILLINOIS
DEPARTMENT OF
NATURAL
RESOURCES

Illinois State Water Survey

Main Office • 2204 Griffith Drive • Champaign, IL 61820-7495 • *Tel (217) 333-2210* • *Fax (217) 333-6540*
Peoria Office • P.O. Box 697 • Peoria, IL 61652-0697 • *Tel (309) 671-3196* • *Fax (309) 671-3106*

5/4/2005

Ms. Amy Hanrahan
Burns & McDonnell
1431 Opus Place, Suite 400
Downers Grove, IL 60515

Dear Ms. Hanrahan:

As you requested during our telephone conversation on May 04, 2005, we are enclosing printouts from our Private Well Database and Public, Industrial, Commercial Survey (PICS) Database for the following locations:

COUNTY	TOWNSHIP	RANGE	SECTIONS
COOK	40 NORTH	14 EAST	32

No available information is indicated on the printout by the statement "0 records were found for the specified locations." Also enclosed are explanations of the Illinois State Water Survey Private Well and PICS Databases.

The data included in the Private Well Database are those non-municipal wells which are known to the Illinois State Water Survey, and the PICS Database is an inventory of municipal well information and large industrial groundwater users. We may not have a copy of well records for these groundwater users.

The enclosed statement reflects the charges for this request which includes a $35.00 query fee for PICS information, a $35.00 query fee for Private well information, and a $0.10 per page charge for 4 pages, plus a $5.00 shipping and handling fee, totaling $75.40.

If you have any questions or if I can be of further assistance, please call.

Sincerely,

Susie Casey

Susie Dodd-Casey
Associate Supportive Scientist
Center for Groundwater Science
Phone: (217) 333-9043

Enclosures as stated

ILLINOIS STATE WATER SURVEY
PICS DATABASE EXPLANATION

SWS ID	ISWS Facility ID Number
NAME	Facility Name
WELL #	ISWS Point Source Well/Intake Number
STATUS	Point Source Status of Well/Intake
	A = Abandoned - no longer in existence, no affidavit on file, or do not know if it has been filled in C = Capped - cap attached to top D = Disconnected - disconnected from system E = Emergency - available for standby use I = In Use - produces major portion of water O = Observation - used for water level measurements S = Sealed - filled in U = Unused - exists but not used
FIPS	County Code Number
TWN	Civil Township
RNG	Range
SEC	Section
PLOT	10-acre Plot Location within the Section
DEPTH	Depth (well to nearest ft)
TYPE LOG	D = Driller's log O = Other X = Chemical C = Correlated log S = Sample study log - = Log not available
YEAR	Year Point Source Initially Constructed
DRILLER	Well Drilling Contractor of Well

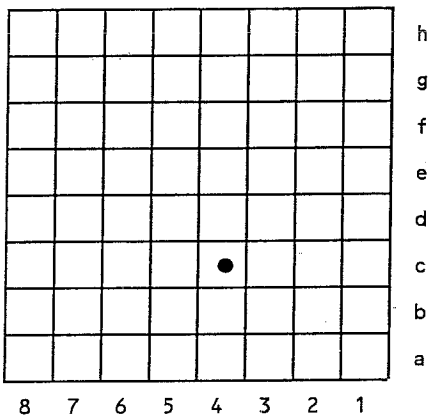
May 2002

ISWS 10-ACRE PLOT LOCATION SYSTEM

The following is an explanation of the ISWS Private Well Database location system.

The location system uses Township, Range, and Section. The location consists of five parts: County abbreviation, Township, Range, Section, and coordinate within the section (subsection or 10-acre plot). Sections are divided into rows of 1/8-mile squares. Each 1/8-mile square contains 10 acres and corresponds to a quarter of a quarter of a quarter section. A normal section of 1 square mile contains 8 rows of 1/8-mile squares; an odd-sized section contains more or fewer rows. Rows are numbered from east to west and lettered from south to north as shown in the diagram.

Example: St. Clair County, FIP No. 163
T2N, R10W
Section 23



The location of the well shown above is 163 2N10W-23.4c. The well point is located at the center of this 10-acre plot.

ILLINOIS STATE WATER SURVEY

PRIVATE WELL DATABASE EXPLANATION

WID	Illinois State Water Survey Identification Number
FIPS	County Code Number
TWN	Civil Township
RNG	Range
SEC	Section
PLOT	10-acre Plot Location within the Section
OWNER	Well Owner
DRILLER	Well Drilling Contractor of Well
DATE DRILLED	Date Initially Drilled
DEPTH	Depth (well to nearest ft)
RECORD TYPE	Record Type (types of information on file) R - Construction Report G - Geology S - Sealed A - Affidavit C - Chemical Analysis I - Inventory X - Indicates Comment in Owners Field Something Unusual O - Any Other Type of Record P - Pump Installation
USE	Well Use (two-letter code indicating the usage of the well) CO - Conservation CS - Community Supply DO - Domestic DW - De-Watering IC - Industrial/Commercial IN - Injection Well IR - Irrigation MO - Monitoring NC - Non-Community NW - Non-Well Source OB - Observation PK - Park RC - Recovery Well RW - Relief Well SC - School ST - State

USE (Continued)

TB - Test Boring
TH - Test Hole
TW - Test Well
~ - Unknown

WELL TYPE Well Type (two-letter code indicating the type of well)

BLANK - Assumed Drilled
BD - Bored
DL - Drilled
DU - Dug (Being Phased Out)
DR - Driven
NW - Non-Well
SP - Sand Point
SG - Spring
~ - Assumed Drilled or Possibly Unknown

AQUIFER TYPE Aquifer Type (two-letter code indicating aquifer type)

BR - Bedrock
DH - Dry Hole
SW - Surface Water
UN - Unconsolidated
~ - Unknown

STAT LVL Static Level - Reported non-pumping water level

PUMP LVL Pumping Level - Reported water level during initial pumping of the well

PUMP GPM Pumping GPM - Gallons per minute at time of well construction

THE DATA IN THE PRIVATE WELL DATABASE IS A LISTING OF THE NON-COMMUNITY WELLS WHICH ARE KNOWN TO THE ILLINOIS STATE WATER SURVEY (ISWS). THIS INFORMATION HAS BEEN ENTERED VERBATIM FROM WELL LOGS SUBMITTED BY THE DRILLER, FROM CHEMICAL ANALYSIS REPORTS, FROM WELL SEALING FORMS, OR WELL INVENTORY FORMS FROM THE 1930-34 WELL SURVEY AND OTHER SPECIAL PROJECTS. THE ACCURACY OF THIS DATA IS CONTROLLED BY THOSE WHO SUBMITTED THE FORM. INFORMATION IN THE PRIVATE WELL DATABASE HAS NOT BEEN VERIFIED.

Illinois State Water Survey Private Well Database

Wednesday, May 4, 2005

County: COOK

Township: 40N

Range: 14E

Sections: 32

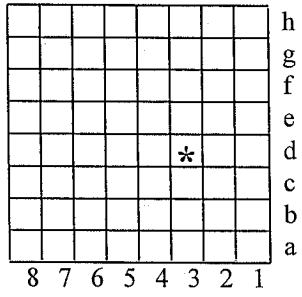
Records Found: 21

Questions: Contact the Illinois State Water Survey's Ground Water Division @ (217)-333-9043

Publication: Please cite the Illinois State Water Survey's Private Well Database in all publications based wholly or partially on this information.

Note: The data in the Private Well Database is a listing of non-municipal wells which are known to the Illinois State Water Survey (ISWS). This information has been entered verbatim from well logs submitted by the driller, chemical analysis reports, well sealing forms, well inventory forms from the 1930-1934 well survey, and other special projects. The accuracy of this data is controlled by those submitting the forms. Information in the Private Well Database has not been verified.

This data cannot be resold or redistributed. The Illinois State Water Survey must be acknowledged in any use of this material.



Location of a 10-acre-plot within a section:

The origin can be found at the lower right-hand-corner of an 8 x 8 grid. In this example, the well is in the 10-acre plot '3d'.

D	FIPS	TWN	RNG	SEC	PLOT	OWNER	DRILLER	DRILL DATE	DEPTH	RECORD TYPE	USE	WELL TYPE	AQ TYPE	STAT LVL	PUMP LVL	PUMP GPM
176	031	40N	14E	32		GUTMANN TANNERY CO		00/00/1900	990	CO	IC		BR			
187	031	40N	14E	32		PETER HAND BREWERY CO	J P MILLER	00/00/1905	1972	CO	IC		BR			
190	031	40N	14E	32		SPIELMAN BROS VINEGAR WORKS	J P MILLER	05/00/1899	1590	OGC	IC		BR			
502	031	40N	14E	32		BIRK BREWING CO/CORPER & NOCKI	J P MILLER	06/00/1899	1565	O	IC		BR			
497	031	40N	14E	32		ATLANTIC BREWING CO/PAUL POHL	J P MILLER	00/00/1800	1304	O	IC		BR			
182	031	40N	14E	32		JEFFERSON ICE CO PLANT #5	MILLER BROS	00/00/1895	1616	O	IC		BR			
186	031	40N	14E	32		NORTHWEST BREWERY	J P MILLER	00/00/1897	1302	O	IC		BR			
173	031	40N	14E	32	1H	F P SMITH WIRE & IRON WORKS	GEIGER	00/00/1897	240	OGC	IC		BR			
6058	031	40N	14E	32	4B	GI NORTH PROPERTY LLC #MW-01	ROCK & SOIL DRILLING/DEREK	02/18/2002	18	RG	MO	DL	UN			
6059	031	40N	14E	32	4B	GI NORTH PROPERTY LLC #MW-02	ROCK & SOIL DRILLING	02/14/2002	18	RG	MO	DL	U			
6060	031	40N	14E	32	4B	GI NORTH PROPERTY LLD #MW-03	ROCK & SOIL DRILLING/DEREK	02/18/2002	20	RG	MO	DL	UN			
6061	031	40N	14E	32	4B	GI NORTH PROPERTY LLC #MW-04	ROCK & SOIL DRILLING	02/14/2002	20	RG	MO	DL	UN			
6062	031	40N	14E	32	4B	GI NORTH PROPERTY LLC #MW-05	ROCK & SOIL DRILLING	02/15/2002	20	RG	MO	DL	UN			
4162	031	40N	14E	32	6F	BIRK BREWING CO	GEIGER	09/00/1943	1590	OGR	IC		BR			
4163	031	40N	14E	32	6F	BIRK BREWING CO	J P MILLER	00/00/1893	1610	OG	IC		BR			

D	FIPS	TWN	RNG	SEC	PLOT	OWNER	DRILLER	DRILL DATE	DEPTH	RECORD TYPE	USE	WELL TYPE	AQ TYPE	STAT LVL	PUMP LVL	PUMP GPM
9697	031	40N	14E	32	7A	SIPI METALS #MW-6	C S DRILLING/M. NOTOLI	08/11/2004	14	RG	MO	DL	UN			
9695	031	40N	14E	32	7B	SIPI METALS #MW-4	C SS DDRILLING/M. NOTOLI	08/10/2004	15	RG	MO	DL	UN			
9696	031	40N	14E	32	7B	SIPI METALS #MW-5	C SS DRILLING/M. NOTOLI	08/11/2004	15	RG	MO	DL	UN			
9692	031	40N	14E	32	7B	SIPI METALS #MW-1	CS DRILLING/M. NOTOLI	08/10/2004	14	RG	MO	DL	UN			
9693	031	40N	14E	32	7B	SIPI METAL #MW-2	C DRILLING/M. NOTOLI	08/09/2004	15	RG	MO	DL	UN			
9694	031	40N	14E	32	7C	SIPI METALS #MW-3	C DRILLING/M. NOTOLI	08/09/2004	15	RG	MO	DL	UN			

Illinois State Water Survey PICS Database

Wednesday, May 4, 2005

County: COOK

Township: 40N

Range: 14E

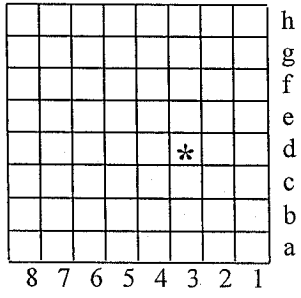
Sections: 32

Records Found: 0

Questions: Contact the Illinois State Water Survey's Ground Water Division @ (217)-333-9043

Publication: **Please cite the Illinois State Water Survey's PICS (Public-industrial-Commercial) Database in all publications based wholly or partially on this information.**

Note: The data in the PICS Database is a listing of municipal and commercial wells which are known to the Illinois State Water Survey (ISWS). This information was initially entered from public water supply data and supplemented with the Illinois State Water Inventory Project data. This database is updated as additional information is received and verified.



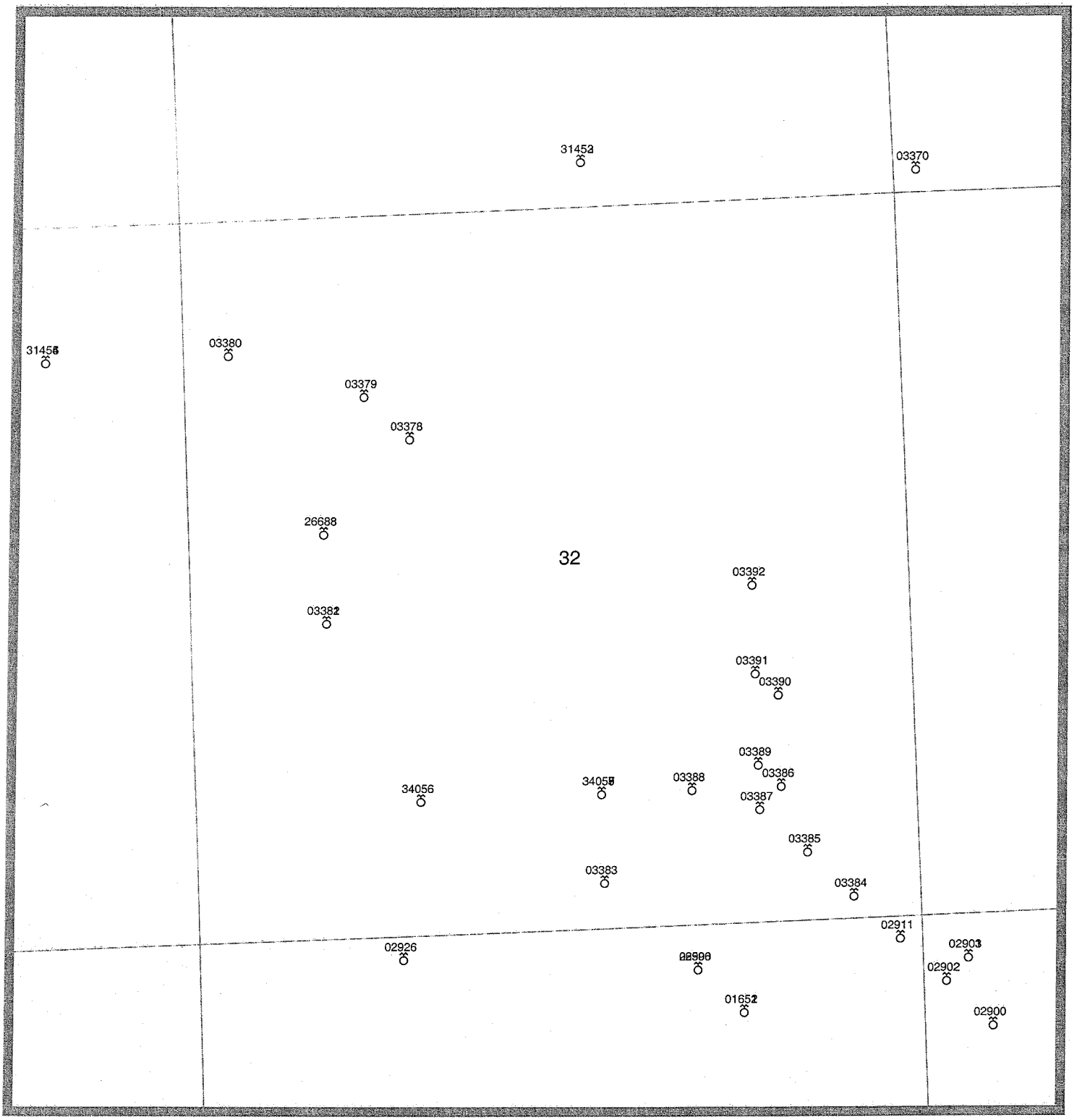
Location of a 10-acre-plot within a section:

The origin can be found at the lower right-hand-corner of an 8 x 8 grid. In this example, the well is in the 10-acre plot '3d'.

/SID	FIPS	TWN	RNG	SEC	PLOT	NAME	DB ID	WELL #	DEPTH	STATUS	YEAR SEALED	TYPE	YEAR	DRILLER

ILLINOIS STATE GEOLOGICAL SURVEY

Map Area: 39N-14E-6 m3 to 40N-14E-28 m3



Explanation

Oil	Gas Injection	Junked
Oil & Gas	Gas Storage	Temporarily Abandoned
Gas	Salt Water Disposal	Observation
D&A - Oil Show	Water Injection	Other Injection
D&A - Gas Show	Water Supply	Confidential
D&A - Oil & Gas Show	Permit	Other Well Type
D&A	Water	Status Unknown

/ through any symbol indicates well is currently plugged

N

0 1018 2036 ft

Illinois State Geological Survey

QuEStoR: Custom Map

Date: 05-MAY-05 Scale: 1:12216

Displayed data is based upon information supplied to the Illinois State Geological Survey (ISGS) and are not field verified. The ISGS does not guarantee the validity, accuracy or completeness of these data

Non Oil and Gas - Wells

120310290000 Chicago Dept. of Subways 4-39N-14E
Cook Subway Boring P-73
Status: ENG 165 NL 165 EL SW NW NW Elev: 593GL
permit: 0 permit date: comp. date: 04/01/39
Lambert X: 3502439 Lambert Y: 3235687 td: 55
producing formation: td formation:
latitude: 41.908610 longitude: 87.646271

120310290100 Chicago Dept. of Subways 4-39N-14E
Cook Subway Boring P-74
Status: ENG NW NW NW Elev: 593GL
permit: 0 permit date: comp. date: 04/01/39
Lambert X: 3502260 Lambert Y: 3236174 td: 55
producing formation: td formation:
latitude: 41.909962 longitude: 87.646894

120310290200 Chicago Dept. of Subways 4-39N-14E
Cook Subway Boring P-75
Status: ENG 165 SL 165 WL NW NW NW Elev: 593GL
permit: 0 permit date: comp. date: 04/01/39
Lambert X: 3502108 Lambert Y: 3236003 td: 55
producing formation: td formation:
latitude: 41.909499 longitude: 87.647468

120310290300 Chicago Dept. of Subways 4-39N-14E
Cook Subway Boring P-76
Status: ENG NW NW NW Elev: 593GL
permit: 0 permit date: comp. date: 04/01/39
Lambert X: 3502260 Lambert Y: 3236174 td: 55
producing formation: td formation:
latitude: 41.909962 longitude: 87.646894

120310290600 Chicago Pub. Works Dept. 5-39N-14E
Cook Chgo Pub Wks Dept
Status: ENG NE NW NE Elev: 593GL
permit: 0 permit date: comp. date: 01/01/27
Lambert X: 3500291 Lambert Y: 3236092 td: 78
producing formation: td formation:
latitude: 41.909846 longitude: 87.654163

120310165200 Geiger, S. B. Co. 5-39N-14E
Cook Fleischmann Yeast 1
Status: WATER N2 NE Elev: 590TM
permit: 0 permit date: comp. date: 01/01/27
Lambert X: 3500633 Lambert Y: 3235777 td: 1965
producing formation: td formation:
latitude: 41.908959 longitude: 87.652925

120310165100 Layne Bowler Co 5-39N-14E
Cook Fleischmann Yeast 2
Status: WATER N2 NE Elev: 590TM
permit: 0 permit date: comp. date: 01/01/25
Lambert X: 3500633 Lambert Y: 3235777 td: 1962
producing formation: td formation:
latitude: 41.908959 longitude: 87.652925

120312659000 Chicago Pub. Works Dept. 5-39N-14E
Cook St Bulkhead Walls Re-4

Status: ENG NE NW NE Elev: 592GL
permit: 0 permit date: comp. date: 03/01/61
Lambert X: 3500291 Lambert Y: 3236092 td: 70
producing formation: td formation:
latitude: 41.909846 longitude: 87.654163

120310291100 Chicago Dept. of Subways 5-39N-14E
Cook Subway Boring P-77
Status: ENG 165 NL 165 EL NE NE NE Elev: 593GL
permit: 0 permit date: comp. date: 04/01/39
Lambert X: 3501766 Lambert Y: 3236317 td: 55
producing formation: td formation:
latitude: 41.910384 longitude: 87.648706

120310292600 Chicago Dept. of Subways 5-39N-14E
Cook Subway Boring R-5A
Status: ENG 165 NL 165 WL NW NE NW Elev: 592GL
permit: 0 permit date: comp. date: 04/01/39
Lambert X: 3498144 Lambert Y: 3236168 td: 35
producing formation: td formation:
latitude: 41.910176 longitude: 87.662077

120310337000 Chicago Dept. of Subways 28-40N-14E
Cook Subway Boring B-2
Status: ENG 165 SL 165 WL SE SE SE Elev: 586GL
permit: 0 permit date: comp. date: 06/01/40
Lambert X: 3501829 Lambert Y: 3241926 td: 75
producing formation: td formation:
latitude: 41.925835 longitude: 87.648052

120313145200 Galien, Vander Sam 29-40N-14E
Cook Amoco Oil Co. MW-1A
Status: MONIT SW SW SE Elev: 596GL
permit: none permit date: comp. date: 01/30/92
Lambert X: 3499368 Lambert Y: 3241992 td: 14
producing formation: td formation:
latitude: 41.926154 longitude: 87.657126

120313145300 Galien, Vander Sam 29-40N-14E
Cook Amoco Oil Co. RW-1
Status: MONIT SW SW SE Elev: 596GL
permit: none permit date: comp. date: 01/30/92
Lambert X: 3499368 Lambert Y: 3241992 td: 15
producing formation: td formation:
latitude: 41.926154 longitude: 87.657126

120313145400 Testing Service Corp. 31-40N-14E
Cook Mayfair Const. Co. MW-2
Status: MONIT SW NE NE Elev: 0
permit: none permit date: comp. date: 12/07/92
Lambert X: 3495486 Lambert Y: 3240520 td: 20
producing formation: td formation:
latitude: 41.922315 longitude: 87.671558

120313145500 Testing Service Corp. 31-40N-14E
Cook Mayfair Const. Co. MW-8
Status: MONIT SW NE NE Elev: 0
permit: none permit date: comp. date: 12/07/92
Lambert X: 3495486 Lambert Y: 3240520 td: 20
producing formation: td formation:
latitude: 41.922315 longitude: 87.671558

120313145600 Testing Service Corp. 31-40N-14E
Cook Mayfair Const. Co. MW-9
Status: MONIT SW NE NE Elev: 0
permit: none permit date: comp. date: 12/08/92
Lambert X: 3495486 Lambert Y: 3240520 td: 18
producing formation: td formation:
latitude: 41.922315 longitude: 87.671558

120310337800 Geiger, S. B. Co. 32-40N-14E
Cook Birk Bros Brew
Status: WATER NW SE NW Elev: 597GL
permit: 0 permit date: comp. date: 01/01/43
Lambert X: 3498145 Lambert Y: 3239962 td: 1600
producing formation: td formation:
latitude: 41.920629 longitude: 87.661790

120310337900 Miller, J. P. Art. Well 32-40N-14E
Cook Birk Bros Brew
Status: WATER NW Elev: 0
permit: permit date: comp. date:
Lambert X: 3497804 Lambert Y: 3240278 td: 1610
producing formation: td formation:
latitude: 41.921519 longitude: 87.663024

120310338300 Chicago Pub. Works Dept. 32-40N-14E
Cook Chgo Pub Wks Dept 0585
Status: ENG SW SW SE Elev: 0
permit: 0 permit date: comp. date: 01/01/27
Lambert X: 3499604 Lambert Y: 3236723 td: 72
producing formation: td formation:
latitude: 41.911623 longitude: 87.656650

120310338000 Chicago Pub. Works Dept. 32-40N-14E
Cook Chgo Pub Wks Dept
Status: ENG SW NW NW Elev: 583GL
permit: 0 permit date: comp. date: 01/01/27
Lambert X: 3496807 Lambert Y: 3240568 td: 71
producing formation: td formation:
latitude: 41.922374 longitude: 87.666681

120310338200 Chicago Pub. Works Dept. 32-40N-14E
Cook Chgo Pub Wks Dept
Status: ENG NE NW SW Elev: 585GL
permit: 0 permit date: comp. date: 01/01/27
Lambert X: 3497545 Lambert Y: 3238618 td: 64
producing formation: td formation:
latitude: 41.916960 longitude: 87.664104

120310338100 Chicago Pub. Works Dept. 32-40N-14E
Cook Chgo Pub Wks Dept
Status: ENG NE NW SW Elev: 586GL
permit: 0 permit date: comp. date: 01/01/27
Lambert X: 3497545 Lambert Y: 3238618 td: 62
producing formation: td formation:
latitude: 41.916960 longitude: 87.664104

120313405700 Rock & Soil Drilling Corp. 32-40N-14E
Cook GI North Property LLC MW-03
Status: MONIT NW SW SE Elev: 0
permit: permit date: comp. date: 02/18/02
Lambert X: 3499575 Lambert Y: 3237381 td: 20
producing formation: td formation:
latitude: 41.913438 longitude: 87.656708

120313405800 Rock & Soil Drilling Corp. 32-40N-14E
Cook GI North Property LLC MW-04
Status: MONIT NW SW SE Elev: 0
permit: permit date: comp. date: 02/14/02
Lambert X: 3499575 Lambert Y: 3237381 td: 20
producing formation: td formation:
latitude: 41.913438 longitude: 87.656708

120313405900 Rock & Soil Drilling Corp. 32-40N-14E
Cook GI North Property LLC MW-05
Status: MONIT NW SW SE Elev: 0
permit: permit date: comp. date: 02/15/02
Lambert X: 3499575 Lambert Y: 3237381 td: 20
producing formation: td formation:
latitude: 41.913438 longitude: 87.656708

120313405500 Rock & Soil Drilling Corp. 32-40N-14E
Cook GI North Property LLC MW01
Status: MONIT NW SW SE Elev: 0
permit: permit date: comp. date: 02/18/02
Lambert X: 3499575 Lambert Y: 3237381 td: 18
producing formation: td formation:
latitude: 41.913438 longitude: 87.656708

120313405600 Rock & Soil Drilling Corp. 32-40N-14E
Cook GI North Property LLC MW02
Status: MONIT NW SE SW Elev: 0
permit: permit date: comp. date: 02/14/02
Lambert X: 3498259 Lambert Y: 3237327 td: 18
producing formation: td formation:
latitude: 41.913363 longitude: 87.661566

120312668800 Chicago Pub. Works Dept. 32-40N-14E
Cook St Bulkhd Walls Re-2
Status: ENG SE SW NW Elev: 590GL
permit: 0 permit date: comp. date: 03/01/61
Lambert X: 3497518 Lambert Y: 3239277 td: 86
producing formation: td formation:
latitude: 41.918777 longitude: 87.664154

120310338400 Chicago Dept. of Subways 32-40N-14E
Cook Subway Boring P-78
Status: ENG 165 SL 165 WL SE SE SE Elev: 593GL
permit: 0 permit date: comp. date: 01/01/39
Lambert X: 3501423 Lambert Y: 3236633 td: 55
producing formation: td formation:
latitude: 41.911274 longitude: 87.649947

120310338500 Chicago Dept. of Subways 32-40N-14E
Cook Subway Boring P-79
Status: ENG 165 NL 165 EL SW SE SE Elev: 593GL
permit: 0 permit date: comp. date: 04/01/39
Lambert X: 3501078 Lambert Y: 3236948 td: 55
producing formation: td formation:
latitude: 41.912161 longitude: 87.651196

120310338600 Chicago Dept. of Subways 32-40N-14E
Cook Subway Boring P-80
Status: ENG NW SE SE Elev: 593GL
permit: 0 permit date: comp. date: 04/01/39
Lambert X: 3500890 Lambert Y: 3237436 td: 55

producing formation: td formation:
latitude: 41.913516 longitude: 87.651853

120310338700 Chicago Dept. of Subways 32-40N-14E
Cook Subway Boring P-81
Status: ENG 165 SL 165 WL NW SE SE Elev: 593GL
permit: 0 permit date: comp. date: 04/01/39
Lambert X: 3500734 Lambert Y: 3237264 td: 49
producing formation: td formation:
latitude: 41.913051 longitude: 87.652441

120310338800 Chicago Dept. of Subways 32-40N-14E
Cook Subway Boring P-82
Status: ENG NE SW SE Elev: 593GL
permit: 0 permit date: comp. date: 05/01/39
Lambert X: 3500232 Lambert Y: 3237408 td: 55
producing formation: td formation:
latitude: 41.913476 longitude: 87.654282

120310338900 Chicago Dept. of Subways 32-40N-14E
Cook Subway Boring P-83
Status: ENG 165 NL 165 WL NW SE SE Elev: 595GL
permit: 0 permit date: comp. date: 04/01/39
Lambert X: 3500718 Lambert Y: 3237593 td: 55
producing formation: td formation:
latitude: 41.913958 longitude: 87.652476

120310339000 Chicago Dept. of Subways 32-40N-14E
Cook Subway Boring P-84
Status: ENG SW NE SE Elev: 594GL
permit: 0 permit date: comp. date: 05/01/39
Lambert X: 3500860 Lambert Y: 3238094 td: 55
producing formation: td formation:
latitude: 41.915331 longitude: 87.651914

120310339100 Chicago Dept. of Subways 32-40N-14E
Cook Subway Boring P-94
Status: ENG 165 NL 165 WL SW NE SE Elev: 594GL
permit: 0 permit date: comp. date: 12/01/40
Lambert X: 3500688 Lambert Y: 3238252 td: 21
producing formation: td formation:
latitude: 41.915776 longitude: 87.652537

120310339200 Chicago Dept. of Subways 32-40N-14E
Cook Subway Boring P-95
Status: ENG 165 NL 165 WL NW NE SE Elev: 595GL
permit: 0 permit date: comp. date: 12/01/40
Lambert X: 3500658 Lambert Y: 3238910 td: 21
producing formation: td formation:
latitude: 41.917590 longitude: 87.652598

ILLINOIS DEPARTMENT OF PUBLIC HEALTH

Illinois Department of
PUBLIC HEALTH

Rod R. Blagojevich, Governor
Eric E. Whitaker, M.D., M.P.H., Director

525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.idph.state.il.us

MEMORANDUM

TO: Amy Hannahan
Burns & McDonnell

FROM: Elaine Beard
Division of Environmental Health

DATE: May 4, 2005

SUBJECT: FOIA Request

The Environmental Engineering Section's files have been searched and found no information regarding the attached request.

FOIA REQUEST MUST BE GO THROUGH OUR DIVISION OF COMMUNICATIONS.

Send all future requests of this type to:

Illinois Department of Public Health
Division of Communications
535 W. Jefferson St.
Springfield, IL 62761 or fax it to them at 217-782-3987

Do not fax directly to the Division of Environmental Health

Burns & McDonnell
SINCE 1898

May 4, 2005

Ms. Jamie Tosetti
Illinois Department of Public Health
Office of Health Protection – Environmental Health
535 West Jefferson Street
Springfield, Illinois 62761-0001

VIA Fax: 217-557-1188

RE: Freedom of Information Act Request
Peoples Gas – Former Willow Street Station

Dear Ms. Tosetti,

This letter is a request under the Freedom of Information Act for information regarding injection wells, withdrawal wells, regulated recharge areas, and modeled recharge areas within 1,000 feet of the property listed below.

SITE NAME
Peoples Gas – Former Willow Street Station

LOCATION OF SITE:
Site Address: 1640 North Kingsbury Street, Chicago, Illinois 60614
County: Cook County
Section: SE ¼ of Section 32
Township: Township 40 North
Range: Range 14 East

Attached is a map illustrating the location of the site.

Please send the requested information to my attention at the address indicated on the letterhead. If there are costs associated with the copying of documents and document searches that exceed $25.00, or if you have any questions regarding this request, please contact the undersigned (630) 724-3255.

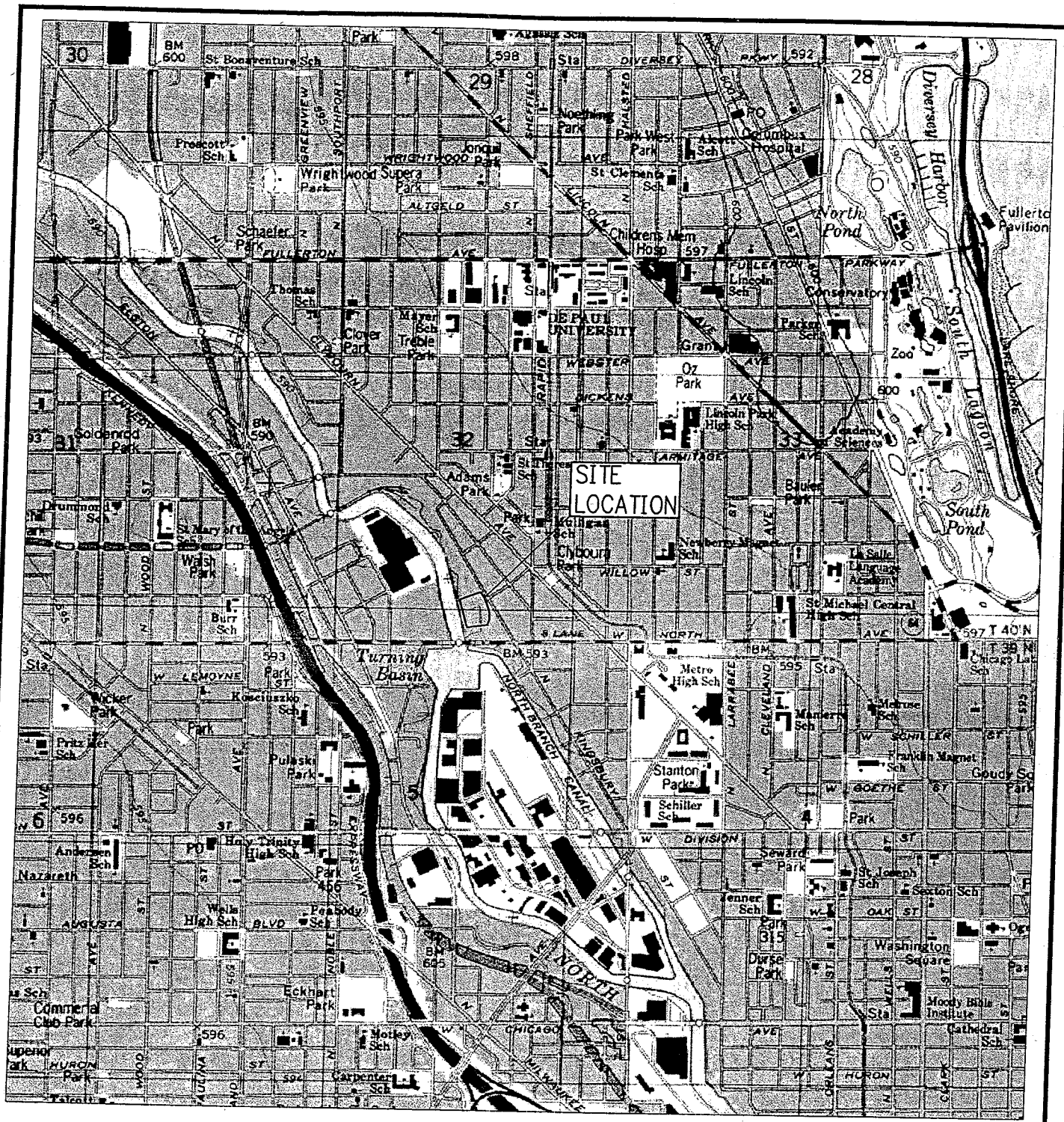
Sincerely,

Amy Hanrahan

Amy Hanrahan
Environmental Engineer

Attachment

1431 Opus Place
Suite 400
Downers Grove, IL 60515-1164
Tel: 630 724-3200
Fax: 630 724-3201
www.burnsmcd.com



I:PEOPLES GAS/WILLOW GENERAL IRON-32088/CAD/BID/SI REPORT/SITE LOCATION MAP

Burns & McDonnell
SINCE 1898

THE PEOPLES GAS
LIGHT AND COKE COMPANY
CHICAGO, ILLINOIS

Figure 1

SITE LOCATION MAP
FORMER WILLOW STREET STATION
1640 NORTH KINGSBURY PORTION
CHICAGO, ILLINOIS

COOK COUNTY DEPARTMENT OF PUBLIC HEALTH

Telephone Call Memo

Date 5/5/05 Time 10:15 AM PM

Person ☒ Called ☐ Calling Dave Pohlbock Phone No. (708) 492-2035

Representing: Cook County Health Department Info. Acct.

Project Name: Willow Project No. 32088

Contract Name Contract No.

RE: He does not do any water well permits, he only gets involved if an unknown well is discovered.

Signed Amy Hanrahan

Page 1 of 1

Burns & McDonnell SINCE 1898

083099 Form GCO-19

CITY OF CHICAGO DEPARTMENT OF PUBLIC HEALTH

Telephone Call Memo

Date 5/4/05 Time 3:30 AM (PM)

Person [X] Called [ ] Calling Department of Public Health Phone No. 312, 747 9884

Representing: City of Chicago Info. Acct.

Project Name: Peoples - Willow Project No. 32088

Contract Name Contract No.

RE: Called City of Chicago Department of Public Health. All water issues are handled through the City of Chicago Department of Water Management.

Signed Amy Hanrahan

Page 1 of 1

Burns & McDonnell SINCE 1898

083099 Form GCO-19

CITY OF CHICAGO – DIVISION OF WATER QUALITY

Telephone Call Memo

Date 5/5/05 Time 10:30 AM P.M

Person ☒ Called ☐ Calling Joe Vencill Phone No. 312, 744-8190

Representing City of Chicago - Water Quality Info. Acct.

Project Name: Peoples - Willow Project No. 32088

Contract Name Contract No.

RE:

The city of Chicago has no public supply wells. Refered to the State for private well information because the city does not have those records.

Signed Amy Hanrahan

Page 1 of 1

Burns & McDonnell SINCE 1898

083099 Form GCO-19

ILLINOIS EPA – BUREAU OF WATER

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276, 217-782-3397
JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601, 312-814-6026

ROD R. BLAGOJEVICH, GOVERNOR RENEE CIPRIANO, DIRECTOR

5/18/2005

Phone: 217/782-8482
Fax: 217/782-9891
E-mail: janet.christer@epa.state.il.us

Amy Hanrahan
Burns & McDonnell
1431 Opus Place, Suite 400
Downers Grove, IL 60515

Request information regarding location of community water supply wells in Cook County, IL (FOIA NO: **2005-1178**)

Dear Amy Hanrahan:

The FOIA Sector, Bureau of Water has processed your request dated 05/4/2005 for public records pursuant to the Freedom of Information Act ("FOIA") (5ILCS 140/1 et. Seq.).

You requested information from Public Water Supplies pertaining to the nearest community water supply wells located in the SE ¼ of Section 32, T40N, R14E. Based upon the information provided, the project area appears to be located outside 2500 feet from a community water supply well.

Effective September 1st, 2001, the Pleasant Valley Public Water District, in Peoria County, is the first and the only regulated recharge area to designate a defined area with specific regulations in place for the area contributing groundwater to its public water supply wells pursuant to section 17.3 of the Illinois Environmental Protection Act (Act). Further, Class III Special Resource Groundwater Designations are Parker Fen in McHenry County, Fogelpole Cave in Monroe County, and soon, Boone Creek Fen, Spring Hollow, Lee Miglin Savanna and Amberin Ash Ridge in central McHenry County.

The Illinois Department of Public Health should be contacted at (217) 782-5830 in regards to the regulations concerning private, semi-private or non-community public water supply wells and the Illinois State Water Survey should be contacted at (217) 333-9043 in regards to the location of these wells.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276, 217-782-3397
JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601, 312-814-6026

ROD R. BLAGOJEVICH, GOVERNOR RENEE CIPRIANO, DIRECTOR

I trust that this meets your needs. Should you require any further information, please feel free to contact me at the above referenced number.

Sincerely,

Janet Christer

Janet Christer
FOIA Coordinator, Bureau of Water

cc: File

Burns & McDonnell
SINCE 1898

May 4, 2005

Ms. Janet Christer
IEPA, Bureau of Water
Division of Public Water Supplies #13
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

VIA Fax: 217-782-0075

RE: Freedom of Information Act Request
Peoples Gas – Former Willow Street Station

Dear Ms. Christer,

This letter is a request under the Freedom of Information Act for information regarding injection wells, withdrawal wells, regulated recharge areas, and modeled recharge areas within 1,000 feet of the property listed below.

SITE NAME
Peoples Gas – Former Willow Street Station

LOCATION OF SITE:
Site Address: 1640 North Kingsbury Street, Chicago, Illinois 60614
County: Cook County
Section: SE ¼ of Section 32
Township: Township 40 North
Range: Range 14 East

Attached is a map illustrating the location of the site.

Please send the requested information to:

Amy Hanrahan
Burns & McDonnell
1431 Opus Place, Suite 400
Downers Grove, Illinois 60515

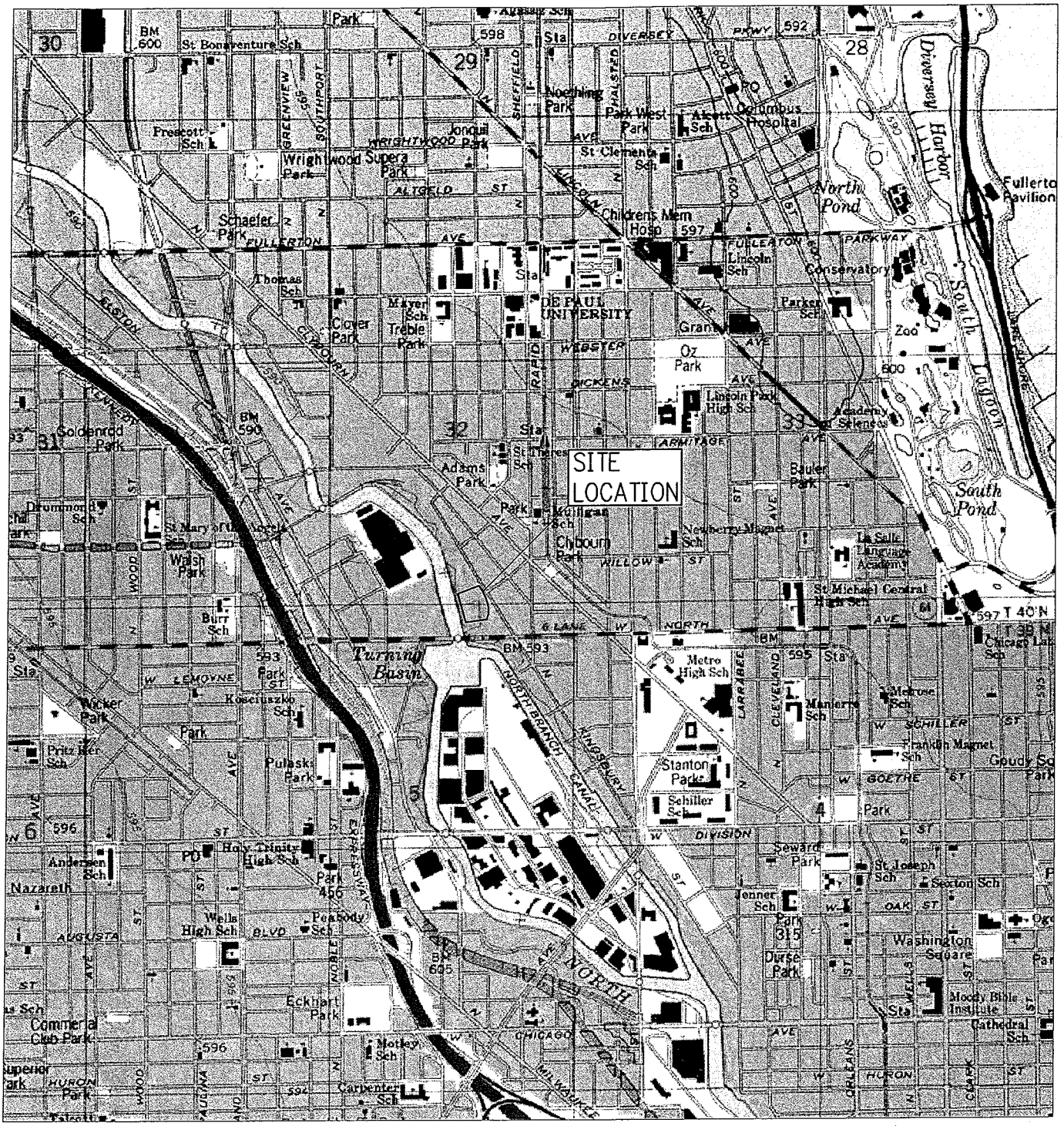
If you have any questions regarding this request, please contact the undersigned (630) 724-3255.

Sincerely,

Amy Hanrahan
Environmental Engineer

Attachment

1431 Opus Place
Suite 400
Downers Grove, IL 60515-1164
Tel: 630 724-3200
Fax: 630 724-3201
www.burnsmcd.com



Burns & McDonnell
SINCE 1898

THE PEOPLES GAS
LIGHT AND COKE COMPANY
CHICAGO, ILLINOIS

Figure 1

SITE LOCATION MAP
FORMER WILLOW STREET STATION
1640 NORTH KINGSBURY PORTION
CHICAGO, ILLINOIS

I:PEOPLES GAS/WILLOW GENERAL IRON-32088/CAD/BID/SI REPORT/SITE LOCATION MAP

EDR GEOCHECK 2003

GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

WILLOW STREET STATION
1701 KINGSBURY STREET
CHICAGO, IL 60614

TARGET PROPERTY COORDINATES

Latitude (North):	41.912899 - 41° 54' 46.4"
Longitude (West):	87.656303 - 87° 39' 22.7"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	445571.1
UTM Y (Meters):	4640100.5

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: 2441087-H6 CHICAGO LOOP, IL
Source: USGS 7.5 min quad index

GENERAL TOPOGRAPHIC GRADIENT AT TARGET PROPERTY

Target Property: General SW

Source: General Topographic Gradient has been determined from the USGS 1 Degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
COOK, IL	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 1700740055B

Additional Panels in search area: 00000000000
1700740045B
1700740039B
1700740060B

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CHICAGO LOOP	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Site-Specific Hydrogeological Data:*
Search Radius: 2.0 miles
Status: Not found

AQUIFLOW®

Search Radius: 2.000 Miles.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
33	1/2 - 1 Mile SSE	NE
F34	1/2 - 1 Mile SSW	Not Reported
35	1/2 - 1 Mile West	Not Reported
G36	1/2 - 1 Mile South	Not Reported
I38	1/2 - 1 Mile North	Not Reported
J41	1/2 - 1 Mile ENE	Not Reported
46	1 - 2 Miles NNW	Not Reported
47	1 - 2 Miles SSE	Not Reported
49	1 - 2 Miles East	Not Reported
50	1 - 2 Miles SSE	Not Reported
51	1 - 2 Miles NNE	E
52	1 - 2 Miles NE	Not Reported
53	1 - 2 Miles SSE	Not Reported
54	1 - 2 Miles SSW	Not Reported
58	1 - 2 Miles SSW	NNE
59	1 - 2 Miles WNW	Not Reported
60	1 - 2 Miles NW	NE
61	1 - 2 Miles NNE	Not Reported
63	1 - 2 Miles SSW	Inconclusive
K64	1 - 2 Miles SE	Not Reported
K65	1 - 2 Miles SE	NE
L66	1 - 2 Miles SE	Not Reported
K68	1 - 2 Miles SE	Not Reported
L69	1 - 2 Miles SE	Not Reported

For additional site information, refer to Physical Setting Source Map Findings.

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

Era: Paleozoic
System: Silurian
Series: Middle Silurian (Niagoaran)
Code: S2 *(decoded above as Era, System & Series)*

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBANLAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information

	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	60 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
fine sandy loam
loam
fine sand

Surficial Soil Types: silt loam
fine sandy loam
loam
fine sand

Shallow Soil Types: sandy loam

Deeper Soil Types: silt loam

loamy sand
sand
loam

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	415446087393901	1/8 - 1/4 Mile West
A2	415446087393901	1/8 - 1/4 Mile West
D12	415455087394501	1/4 - 1/2 Mile WNW
D13	415455087394501	1/4 - 1/2 Mile WNW
G28	415412087391801	1/2 - 1 Mile South
G29	415412087391801	1/2 - 1 Mile South

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

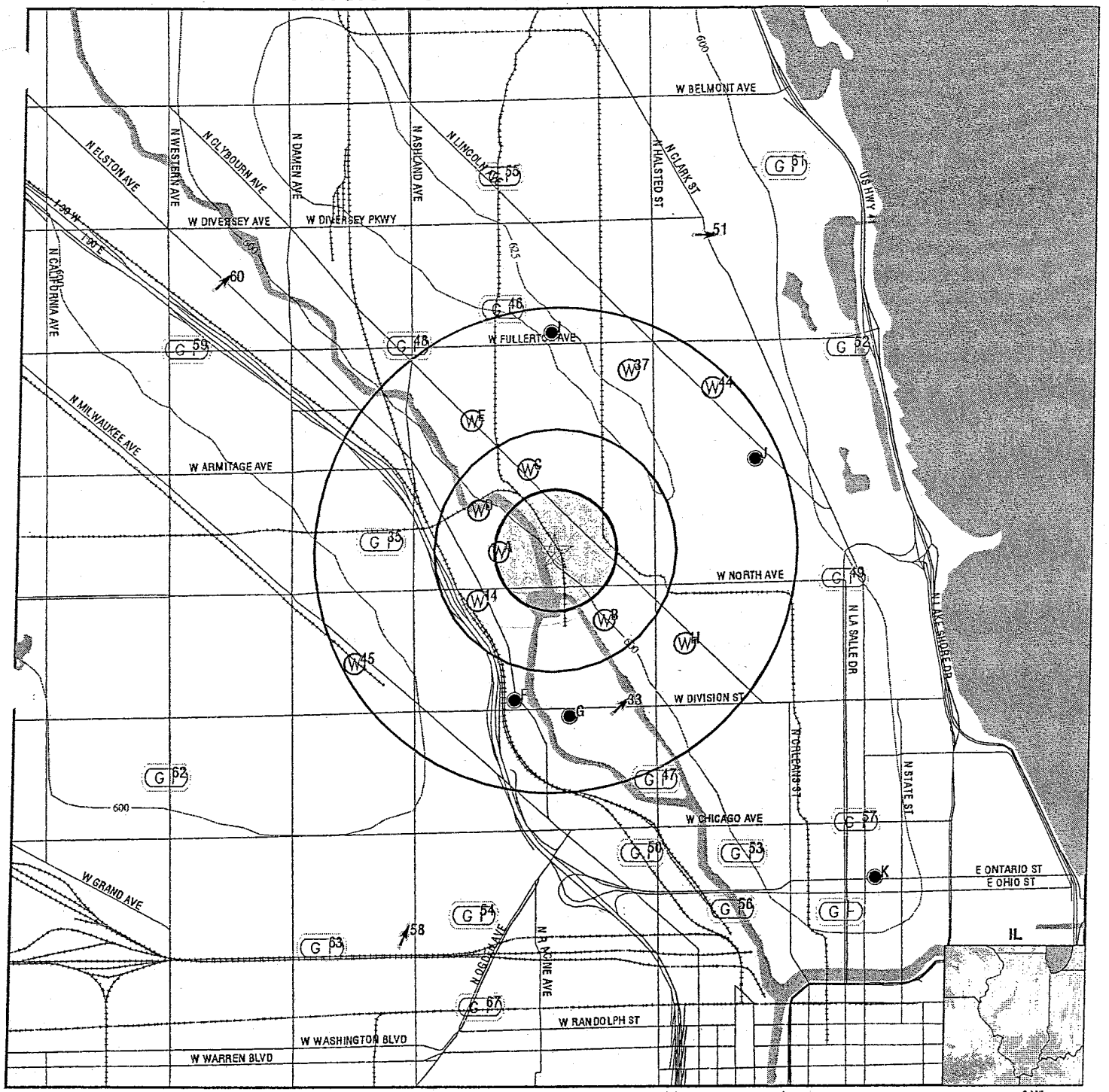
MAP ID	WELL ID	LOCATION FROM TP
B3	GIL00020627	1/4 - 1/2 Mile SSE
B4	GIL00020628	1/4 - 1/2 Mile SSE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C5	P7519	1/4 - 1/2 Mile NNW
C6	P7518	1/4 - 1/2 Mile NNW
C7	P7520	1/4 - 1/2 Mile NNW
C8	P7521	1/4 - 1/2 Mile NNW
C9	P7517	1/4 - 1/2 Mile NNW
C10	P7522	1/4 - 1/2 Mile NNW
C11	P7523	1/4 - 1/2 Mile NNW
14	P7020	1/4 - 1/2 Mile WSW
B15	P7018	1/4 - 1/2 Mile SE
E16	GIL00021505	1/2 - 1 Mile NNW
F17	P7015	1/2 - 1 Mile SSW
F18	P7010	1/2 - 1 Mile SSW
F19	P7017	1/2 - 1 Mile SSW
F20	P7014	1/2 - 1 Mile SSW
F21	P7009	1/2 - 1 Mile SSW
F22	P7011	1/2 - 1 Mile SSW
F23	P7016	1/2 - 1 Mile SSW
F24	P7013	1/2 - 1 Mile SSW
F25	P7012	1/2 - 1 Mile SSW
E26	P7526	1/2 - 1 Mile NW
E27	P7525	1/2 - 1 Mile NW
H30	P7007	1/2 - 1 Mile SE
H31	P7008	1/2 - 1 Mile SE
E32	GIL00021506	1/2 - 1 Mile NNW
37	P7524	1/2 - 1 Mile NNE
J39	P7528	1/2 - 1 Mile ENE
J40	P7527	1/2 - 1 Mile ENE
I42	GIL00027620	1/2 - 1 Mile North
I43	GIL00027619	1/2 - 1 Mile North
44	P7529	1/2 - 1 Mile NE
45	P7021	1/2 - 1 Mile WSW

PHYSICAL SETTING SOURCE MAP - 907691.1s



- County Boundary
- Major Roads
- Contour Lines
- Water Wells
- Public Water Supply Wells
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Cluster of Multiple Icons
- Earthquake epicenter, Richter 5 or greater
- Closest Hydrogeological Data

TARGET PROPERTY:	Willow Street Station	CUSTOMER:	Burns & McDonnell Eng. Co Inc
ADDRESS:	1701 Kingsbury Street	CONTACT:	Diane Saftic
CITY/STATE/ZIP:	Chicago IL 60614	INQUIRY #:	907691.1s

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
A1 **West** **1/8 - 1/4 Mile** **Lower**	**FED USGS**	**415446087393901**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Cook
Altitude:	593.00 ft.	State:	Illinios
Well Depth:	1850.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Bottling

A2 **West** **1/8 - 1/4 Mile** **Lower**	**FED USGS**	**415446087393901**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Cook
Altitude:	593.00 ft.	State:	Illinios
Well Depth:	1850.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Bottling

B3 **SSE** **1/4 - 1/2 Mile** **Higher**	**IL WELLS**	**GIL00020627**

Info Source:	IL Geological Survey		
API ID:	120310165100	Group Number:	31
Well Type:	Water Well	Boring:	0
X Coord:	3500633	Y Coord:	3235777

B4 **SSE** **1/4 - 1/2 Mile** **Higher**	**IL WELLS**	**GIL00020628**

Info Source:	IL Geological Survey		
API ID:	120310165200	Group Number:	31
Well Type:	Water Well	Boring:	0
X Coord:	3500633	Y Coord:	3235777

C5 **NNW** **1/4 - 1/2 Mile** **Higher**	**IL WELLS**	**P7519**

Well ID:	034176	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	GUTMANN TANNERY CO		
Permit:	Not Reported	Date Drilled:	00/00/1900
Depth (in feet):	990	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	40N	Range:	14E
Section:	32	Plot Location:	Not Reported
Well Use:	IN	Well Type:	II
Record Type:	Chemical Analysis,Any other type of record		
Driller:	Not Reported		

C6
NNW
1/4 - 1/2 Mile
Higher

IL WELLS **P7518**

Well ID:	029502	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	BIRK BREWING CO/CORPER & NOCKI		
Permit:	Not Reported	Date Drilled:	06/00/1899
Depth (in feet):	1565	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	40N	Range:	14E
Section:	32	Plot Location:	Not Reported
Well Use:	IN	Well Type:	II
Record Type:	Any other type of record		
Driller:	J P MILLER		

C7
NNW
1/4 - 1/2 Mile
Higher

IL WELLS **P7520**

Well ID:	034182	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	JEFFERSON ICE CO PLANT #5		
Permit:	Not Reported	Date Drilled:	00/00/1895
Depth (in feet):	1616	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	40N	Range:	14E
Section:	32	Plot Location:	Not Reported
Well Use:	IN	Well Type:	II
Record Type:	Any other type of record		
Driller:	MILLER BROS		

C8
NNW
1/4 - 1/2 Mile
Higher

IL WELLS **P7521**

Well ID:	034186	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	NORTHWEST BREWERY		
Permit:	Not Reported	Date Drilled:	00/00/1897
Depth (in feet):	1302	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	40N	Range:	14E
Section:	32	Plot Location:	Not Reported
Well Use:	IN	Well Type:	II
Record Type:	Any other type of record		
Driller:	J P MILLER		

C9
NNW
1/4 - 1/2 Mile
Higher

IL WELLS **P7517**

Well ID:	029497	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	ATLANTIC BREWING CO/PAUL POHL		
Permit:	Not Reported	Date Drilled:	00/00/1800
Depth (in feet):	1304	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	40N	Range:	14E
Section:	32	Plot Location:	Not Reported
Well Use:	IN	Well Type:	II
Record Type:	Any other type of record		
Driller:	J P MILLER		

C10
NNW
1/4 - 1/2 Mile
Higher

IL WELLS **P7522**

Well ID:	034187	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	PETER HAND BREWERY CO		
Permit:	Not Reported	Date Drilled:	00/00/1905
Depth (in feet):	1972	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	40N	Range:	14E
Section:	32	Plot Location:	Not Reported
Well Use:	IN	Well Type:	II
Record Type:	Chemical Analysis,Any other type of record		
Driller:	J P MILLER		

C11
NNW
1/4 - 1/2 Mile
Higher

IL WELLS **P7523**

Well ID:	034190	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	SPIELMAN BROS VINEGAR WORKS		
Permit:	Not Reported	Date Drilled:	05/00/1899
Depth (in feet):	1590	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	40N	Range:	14E
Section:	32	Plot Location:	Not Reported
Well Use:	IN	Well Type:	II
Record Type:	Geology,Chemical Analysis,Any other type of record		
Driller:	J P MILLER		

D12
WNW
1/4 - 1/2 Mile
Higher

FED USGS **415455087394501**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1905	County:	Cook
Altitude:	590.00 ft.	State:	Illinios
Well Depth:	1973.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Bottling

D13
WNW
1/4 - 1/2 Mile
Higher

FED USGS **415455087394501**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1905	County:	Cook
Altitude:	590.00 ft.	State:	Illinios
Well Depth:	1973.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Bottling

14
WSW
1/4 - 1/2 Mile
Lower

IL WELLS **P7020**

Well ID:	033819	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	CHICAGO BREWERY CO		
Permit:	Not Reported	Date Drilled:	00/00/1914
Depth (in feet):	1875	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	39N	Range:	14E
Section:	05	Plot Location:	5H
Well Use:	IN	Well Type:	II
Record Type:	Construction Report,Geology,Chemical Analysis		
Driller:	GEIGER		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
B15 **SE** **1/4 - 1/2 Mile** **Higher**	**IL WELLS**	**P7018**

Well ID:	033853	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	PRIMA PRODUCTS/INDEPENDENT BRE		
Permit:	Not Reported	Date Drilled:	00/00/1914
Depth (in feet):	2164	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	39N	Range:	14E
Section:	05	Plot Location:	1G
Well Use:	IN	Well Type:	II
Record Type:	Geology,Chemical Analysis,Any other type of record		
Driller:	J P MILLER		

E16 **NNW** **1/2 - 1 Mile** **Higher**		**IL WELLS**	**GIL00021505**
Info Source:	IL Geological Survey		
API ID:	120310337800	Group Number:	31
Well Type:	Water Well	Boring:	0
X Coord:	3498145	Y Coord:	3239962

F17 **SSW** **1/2 - 1 Mile** **Higher**		**IL WELLS**	**P7015**
Well ID:	033836	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	EARNEST BROS BREWERY		
Permit:	Not Reported	Date Drilled:	00/00/1889
Depth (in feet):	1655	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	39N	Range:	14E
Section:	05	Plot Location:	Not Reported
Well Use:	IN	Well Type:	II
Record Type:	Any other type of record		
Driller:	J P MILLER		

F18 **SSW** **1/2 - 1 Mile** **Higher**	**IL WELLS**	**P7010**

Well ID:	024216	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	CHICAGO BREWING CO(OR 1875' DE		
Permit:	Not Reported	Date Drilled:	00/00/1934
Depth (in feet):	1627	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	39N	Range:	14E
Section:	05	Plot Location:	Not Reported
Well Use:	IN	Well Type:	ASSUMED DRILLED
Record Type:	Construction Report,Geology,Indicates comment in owner's field something unusual		
Driller:	J P MILLER		

F19
SSW
1/2 - 1 Mile
Higher

IL WELLS **P7017**

Well ID:	189827	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	STANDARD BRANDS #1		
Permit:	Not Reported	Date Drilled:	00/00/1922
Depth (in feet):	1966	Aquifer Type:	--
County Code:	031	County:	COOK
Township:	39N	Range:	14E
Section:	05	Plot Location:	Not Reported
Well Use:	IN	Well Type:	--
Record Type:	Any other type of record		
Driller:	LAYNE-BOWLER		

F20
SSW
1/2 - 1 Mile
Higher

IL WELLS **P7014**

Well ID:	033809	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	HERMAN & CO/AMERICAN MALTING C		
Permit:	Not Reported	Date Drilled:	02/02/1899
Depth (in feet):	1302	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	39N	Range:	14E
Section:	05	Plot Location:	Not Reported
Well Use:	IN	Well Type:	||
Record Type:	Geology,Chemical Analysis,Any other type of record		
Driller:	J P MILLER		

F21
SSW
1/2 - 1 Mile
Higher

IL WELLS **P7009**

Well ID:	023909	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	BUSH & GERTZ PIANO CO/PATENT S		
Permit:	Not Reported	Date Drilled:	00/00/1910
Depth (in feet):	412	Aquifer Type:	Not Reported
County Code:	031	County:	COOK
Township:	39N	Range:	14E
Section:	05	Plot Location:	Not Reported
Well Use:	IN	Well Type:	ASSUMED DRILLED
Record Type:	Any other type of record		
Driller:	Not Reported		

F22
SSW
1/2 - 1 Mile
Higher

IL WELLS **P7011**

Well ID:	029542	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	CHICAGO BREWING CO (OR 1875' D		
Permit:	Not Reported	Date Drilled:	00/00/1934
Depth (in feet):	1627	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	39N	Range:	14E
Section:	05	Plot Location:	Not Reported
Well Use:	IN	Well Type:	II
Record Type:	Construction Report,Geology,Indicates comment in owner's field something unusual		
Driller:	J P MILLER		

F23
SSW
1/2 - 1 Mile
Higher

IL WELLS **P7016**

Well ID:	033892	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	WEST SIDE BREWERY		
Permit:	Not Reported	Date Drilled:	00/00/1914
Depth (in feet):	2100	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	39N	Range:	14E
Section:	05	Plot Location:	Not Reported
Well Use:	IN	Well Type:	II
Record Type:	Chemical Analysis		
Driller:	Not Reported		

F24
SSW
1/2 - 1 Mile
Higher

IL WELLS **P7013**

Well ID:	033492	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	STANDARD BRANDS		
Permit:	Not Reported	Date Drilled:	00/00/1925
Depth (in feet):	1962	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	39N	Range:	14E
Section:	05	Plot Location:	Not Reported
Well Use:	IN	Well Type:	II
Record Type:	Geology,Any other type of record		
Driller:	LAYNE-BOWLER		

F25
SSW
1/2 - 1 Mile
Higher

IL WELLS **P7012**

Well ID:	033482	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	STANDARD BRANDS/FLEISCHMAN YEA		
Permit:	Not Reported	Date Drilled:	00/00/1918
Depth (in feet):	1966	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	39N	Range:	14E
Section:	05	Plot Location:	Not Reported
Well Use:	IN	Well Type:	II
Record Type:	Geology,Any other type of record		
Driller:	GEIGER		

E26
NW
1/2 - 1 Mile
Higher

IL WELLS **P7526**

Well ID:	034163	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	BIRK BREWING CO		
Permit:	Not Reported	Date Drilled:	00/00/1893
Depth (in feet):	1610	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	40N	Range:	14E
Section:	32	Plot Location:	6F
Well Use:	IN	Well Type:	II
Record Type:	Geology,Any other type of record		
Driller:	J P MILLER		

E27
NW
1/2 - 1 Mile
Higher

IL WELLS **P7525**

Well ID:	034162	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	BIRK BREWING CO		
Permit:	Not Reported	Date Drilled:	09/00/1943
Depth (in feet):	1590	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	40N	Range:	14E
Section:	32	Plot Location:	6F
Well Use:	IN	Well Type:	II
Record Type:	Construction Report,Geology,Chemical Analysis,Any other type of record		
Driller:	GEIGER		

G28
South
1/2 - 1 Mile
Higher

FED USGS **415412087391801**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Cook
Altitude:	594.00 ft.	State:	Illinios
Well Depth:	2164.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Industrial

G29
South
1/2 - 1 Mile
Higher

FED USGS **415412087391801**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Cook
Altitude:	594.00 ft.	State:	Illinios
Well Depth:	2164.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Industrial

H30
SE
1/2 - 1 Mile
Higher

IL WELLS **P7007**

Well ID:	033829	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	CRYSTAL ICE CO		
Permit:	Not Reported	Date Drilled:	07/00/1897
Depth (in feet):	1615	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	39N	Range:	14E
Section:	04	Plot Location:	7G
Well Use:	IN	Well Type:	II
Record Type:	Geology,Any other type of record		
Driller:	J P MILLER		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation				Database	EDR ID Number
H31 **SE** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**P7008**
Well ID:	033882	Second ID:	Not Reported		
Info Source:	IL Private Water Wells Survey				
Owner:	SIEBEN BREWING CO/OLD EXCELSIO				
Permit:	Not Reported	Date Drilled:	05/00/1897		
Depth (in feet):	1240	Aquifer Type:	Bedrock		
County Code:	031	County:	COOK		
Township:	39N	Range:	14E		
Section:	04	Plot Location:	7G		
Well Use:	IN	Well Type:	II		
Record Type:	Geology,Chemical Analysis,Any other type of record				
Driller:	MILLER				
E32 **NNW** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00021506**
Info Source:	IL Geological Survey				
API ID:	120310337900	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3497804	Y Coord:	3240278		
33 **SSE** **1/2 - 1 Mile** **Lower**	Site ID:	S100052384		**AQUIFLOW**	**24816**
	Groundwater Flow:	NE			
	Deep Water Depth:	5			
	Average Water Depth:	Not Reported			
	Shallow Water Depth:	2			
	Current Deep Depth:	5			
	Current Average Depth:	Not Reported			
	Current Shallow Depth:	2			
	Date:	03/98			
F34 **SSW** **1/2 - 1 Mile** **Higher**	Site ID:	S102943665		**AQUIFLOW**	**62415**
	Groundwater Flow:	Not Reported			
	Deep Water Depth:	17.25			
	Average Water Depth:	Not Reported			
	Shallow Water Depth:	6.62			
	Current Deep Depth:	Not Reported			
	Current Average Depth:	4			
	Current Shallow Depth:	Not Reported			
	Date:	02/05/1996			
35 **West** **1/2 - 1 Mile** **Higher**	Site ID:	1000402536		**AQUIFLOW**	**62994**
	Groundwater Flow:	Not Reported			
	Deep Water Depth:	Not Reported			
	Average Water Depth:	6.77			
	Shallow Water Depth:	Not Reported			
	Current Deep Depth:	Not Reported			
	Current Average Depth:	6.77			
	Current Shallow Depth:	Not Reported			
	Date:	12/09/1993			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database | EDR ID Number

G36
South
1/2 - 1 Mile
Higher

AQUIFLOW **62373**

Site ID:	S100530252
Groundwater Flow:	Not Reported
Deep Water Depth:	5.48
Average Water Depth:	Not Reported
Shallow Water Depth:	2.31
Current Deep Depth:	Not Reported
Current Average Depth:	Not Reported
Current Shallow Depth:	Not Reported
Date:	10/18/1996

37
NNE
1/2 - 1 Mile
Higher

IL WELLS **P7524**

Well ID:	034173	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	F P SMITH WIRE & IRON WORKS		
Permit:	Not Reported	Date Drilled:	00/00/1897
Depth (in feet):	240	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	40N	Range:	14E
Section:	32	Plot Location:	1H
Well Use:	IN	Well Type:	II
Record Type:	Geology,Chemical Analysis,Any other type of record		
Driller:	GEIGER		

I38
North
1/2 - 1 Mile
Higher

AQUIFLOW **61949**

Site ID:	1000463085
Groundwater Flow:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	5.5
Shallow Water Depth:	Not Reported
Current Deep Depth:	7
Current Average Depth:	Not Reported
Current Shallow Depth:	6
Date:	08/05/1997

J39
ENE
1/2 - 1 Mile
Higher

IL WELLS **P7528**

Well ID:	034177	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	HETZEL PKG CO		
Permit:	Not Reported	Date Drilled:	00/00/1895
Depth (in feet):	160	Aquifer Type:	Not Reported
County Code:	031	County:	COOK
Township:	40N	Range:	14E
Section:	33	Plot Location:	Not Reported
Well Use:	IN	Well Type:	II
Record Type:	Any other type of record		
Driller:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number

J40
ENE
1/2 - 1 Mile
Higher

IL WELLS P7527

Well ID:	023954	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	BARTHOLOMAE & LEICHT BREWING C		
Permit:	Not Reported	Date Drilled:	00/00/1889
Depth (in feet):	1630	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	40N	Range:	14E
Section:	33	Plot Location:	Not Reported
Well Use:	IN	Well Type:	ASSUMED DRILLED
Record Type:	Any other type of record		
Driller:	J P MILLER		

J41
ENE
1/2 - 1 Mile
Higher

AQUIFLOW 27103

Site ID:	1000612992
Groundwater Flow:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	8
Shallow Water Depth:	Not Reported
Current Deep Depth:	Not Reported
Current Average Depth:	9.5
Current Shallow Depth:	Not Reported
Date:	08/06/1997

I42
North
1/2 - 1 Mile
Higher

IL WELLS GIL00027620

Info Source:	IL Geological Survey		
API ID:	120313145300	Group Number:	31
Well Type:	Water Well	Boring:	0
X Coord:	3499368	Y Coord:	3241992

I43
North
1/2 - 1 Mile
Higher

IL WELLS GIL00027619

Info Source:	IL Geological Survey		
API ID:	120313145200	Group Number:	31
Well Type:	Water Well	Boring:	0
X Coord:	3499368	Y Coord:	3241992

44
NE
1/2 - 1 Mile
Higher

IL WELLS P7529

Well ID:	034189	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	U S BREWING CO/SCHMIDT BREWERY		
Permit:	Not Reported	Date Drilled:	00/00/1901
Depth (in feet):	1593	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	40N	Range:	14E
Section:	33	Plot Location:	5G
Well Use:	IN	Well Type:	II
Record Type:	Geology,Chemical Analysis,Indicates comment in owner's field something unusual,Any other type of record		
Driller:	J P MILLER		

45
WSW
1/2 - 1 Mile
Higher

IL WELLS **P7021**

Well ID:	033886	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	SULZBERGER & SONS (DUPLICATE)		
Permit:	Not Reported	Date Drilled:	00/00/1914
Depth (in feet):	1620	Aquifer Type:	Bedrock
County Code:	031	County:	COOK
Township:	39N	Range:	14E
Section:	06	Plot Location:	2F
Well Use:	IN	Well Type:	II
Record Type:	Chemical Analysis,Inventory,Indicates comment in owner's field something unusual		
Driller:	Not Reported		

46
NNW
1 - 2 Miles
Higher

AQUIFLOW **62017**

Site ID:	S101823267
Groundwater Flow:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	8
Shallow Water Depth:	Not Reported
Current Deep Depth:	Not Reported
Current Average Depth:	5
Current Shallow Depth:	Not Reported
Date:	11/20/1991

47
SSE
1 - 2 Miles
Lower

AQUIFLOW **61916**

Site ID:	S100530438
Groundwater Flow:	Not Reported
Deep Water Depth:	10.70
Average Water Depth:	Not Reported
Shallow Water Depth:	6.30
Current Deep Depth:	7.21
Current Average Depth:	Not Reported
Current Shallow Depth:	4.40
Date:	05/1997

48
NW
1 - 2 Miles
Higher

AQUIFLOW **62917**

Site ID:	S100530159
Groundwater Flow:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	Not Reported
Shallow Water Depth:	Not Reported
Current Deep Depth:	7.14
Current Average Depth:	Not Reported
Current Shallow Depth:	4.32
Date:	11/11/1998

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
49 **East** **1 - 2 Miles** **Higher**	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	S100530704 Not Reported 12 Not Reported 10 9.74 Not Reported 9.23 08/22/1998	**AQUIFLOW**	**62124**
50 **SSE** **1 - 2 Miles** **Higher**	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	S100530738 Not Reported Not Reported 6 Not Reported Not Reported Not Reported Not Reported 03/13/1998	**AQUIFLOW**	**56368**
51 **NNE** **1 - 2 Miles** **Higher**	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	S100530354 E 8.5 Not Reported 4.5 8 Not Reported 7 1/24/92	**AQUIFLOW**	**25030**
52 **NE** **1 - 2 Miles** **Lower**	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	S100054974 Not Reported 14 Not Reported 10 12 Not Reported 7 07/1995	**AQUIFLOW**	**56519**
53 **SSE** **1 - 2 Miles** **Higher**	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	S102944042 Not Reported Not Reported 13 Not Reported Not Reported Not Reported Not Reported 01/06/1995	**AQUIFLOW**	**56438**

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
54 SSW 1 - 2 Miles Higher	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	S102943634 Not Reported Not Reported 3 Not Reported Not Reported 3 Not Reported 10/20/1993	AQUIFLOW	27329
55 North 1 - 2 Miles Higher	Shallow Water Depth: Groundwater Flow: Deep Water Depth: Date:	75 Not Reported 77 5/24/93	AQUIFLOW	10648
56 SSE 1 - 2 Miles Lower	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	S102943850 Not Reported Not Reported Not Reported Not Reported 10.26 Not Reported 5.20 01/20/1999	AQUIFLOW	61894
57 SE 1 - 2 Miles Higher	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	S100054979 Not Reported Not Reported Not Reported Not Reported Not Reported Not Reported 18 02/10/1999	AQUIFLOW	56591
58 SSW 1 - 2 Miles Higher	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	S102943955 NNE Not Reported Not Reported Not Reported Not Reported Not Reported Not Reported 3/29/93	AQUIFLOW	25019
59 WNW 1 - 2 Miles Higher	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	S102943668 Not Reported 15.4 Not Reported 7.7 15.4 Not Reported 7.7 03/29/1994	AQUIFLOW	61932

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID / Direction / Distance / Elevation			Database	EDR ID Number
60 NW 1 - 2 Miles Lower	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	1000211694 NE 7 Not Reported 5 5.81 Not Reported 2.30 11/29/1993	AQUIFLOW	24909
61 NNE 1 - 2 Miles Higher	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	S102944091 Not Reported Not Reported Not Reported 12 11 Not Reported 10 10/30/1997	AQUIFLOW	62183
62 WSW 1 - 2 Miles Higher	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	S100530134 Not Reported Not Reported Not Reported Not Reported 7.67 Not Reported 3.63 06/30/1998	AQUIFLOW	62616
63 SSW 1 - 2 Miles Higher	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	S102943733 Inconclusive 12.31 Not Reported 3.59 12.31 Not Reported 3.59 11/05/1992	AQUIFLOW	27203
K64 SE 1 - 2 Miles Higher	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	S100530792 Not Reported 5.62 Not Reported 4.29 6 Not Reported 4 05/1992	AQUIFLOW	27090

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
K65 **SE** **1 - 2 Miles** **Higher**	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	S102944571 NE Not Reported Not Reported Not Reported Not Reported Not Reported Not Reported 06/04/1992	AQUIFLOW	56315
L66 **SE** **1 - 2 Miles** **Higher**	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	S100052304 Not Reported 7.5 Not Reported 7 4.5 Not Reported 3 06/30/97	AQUIFLOW	24808
67 **South** **1 - 2 Miles** **Higher**	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	S101823471 Not Reported Not Reported Not Reported Not Reported 1 Not Reported 1 02/05/1993	AQUIFLOW	56409
K68 **SE** **1 - 2 Miles** **Higher**	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	1000612630 Not Reported 9 Not Reported 8 9 Not Reported 8 04/24/1992	AQUIFLOW	62390
L69 **SE** **1 - 2 Miles** **Higher**	Site ID: Groundwater Flow: Deep Water Depth: Average Water Depth: Shallow Water Depth: Current Deep Depth: Current Average Depth: Current Shallow Depth: Date:	1000614843 Not Reported 14 Not Reported 10 14 Not Reported 10 07/31/1997	AQUIFLOW	61915

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for COOK County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 60614

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.300 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the national Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-4099
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-4099
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

County Well Data in Illinois: Cook and DuPage Counties
Source: Illinois State Geological Survey
Telephone: 217-244-2387

Illinois Private Well Database and PICS (Public, Industrial, Commercial Survey)
Source: Illinois State Water Survey
Telephone: 217-333-9043

Illinois State Geological Survey Water Wells
Source: Illinois State Geological Survey
Telephone: 217-333-5102
Point data set that shows locations, well type, and well ID for wells in Illinois. Data comes from driller's logs.

RADON

Area Radon Information
Source: USGS
Telephone: 303-202-4210
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 202-564-9370
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

APPENDIX E
CITY OF CHICAGO GROUNDWATER ORDINANCE
THE FORMER WILLOW STREET STATION MANUFACTURED GAS PLANT SITE, 1640 NORTH KINGSBURY PORTION

CHICAGO GROUNDWATER ORDINANCE

In May 1997, the Chicago City Council passed a groundwater ordinance, set forth below, prohibiting the installation of new potable water supply wells. The purpose is to limit the potential for persons to be exposed to contaminants by ingesting groundwater. Since new potable wells are prohibited, groundwater contamination is not a potential source of exposure for the vast majority of sites in the city. Limiting the potential exposure pathways to those posed by ingesting or inhaling soil makes cleanups more practical and cost effective. Site owners enrolled in the Illinois Site Remediation Program still must test and report groundwater impacts from their site, however.

The City of Chicago and the Illinois Environmental Protection Agency have a memorandum of understanding which acknowledges the City's groundwater ordinance as an acceptable "institutional control" under the state's TACO guidelines.

* * * *

Municipal Code of Chicago, Illinois
Chapter 11-8 WATER SUPPLY AND DISTRIBUTION SYSTEMS*

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* **Editor's note:** Coun. J. 3-28-01, p. 55444, § 1, repealed Ch. 11-8, in its entirety, which pertained to water supply and distribution systems. Subsequently, Amend Coun. J. 11-28-01, p. 72895, § 1 added provisions designated as § 11-8-390. Former Ch. 11-8 (title) has been restored at the discretion of the editor to accommodate inclusion of provisions designated as 11-8-390. See the Code Comparative Table.

11-8-390 Potable water wells.
For purposes of this section, "potable water" is any water used for human consumption, including but not limited to water used for drinking, bathing, washing dishes, preparing foods and watering gardens in which produce intended for human consumption is grown. No groundwater well, cistern or other groundwater collection device installed after May 14, 1997, may be used to supply any potable water supply system, except at points of withdrawal by the City of Chicago or by a unit of local government pursuant to intergovernmental agreement with the City of Chicago.
(Added Coun. J. 11-28-01, p. 72895, § 1)

APPENDIX F
SOIL COMPONENT EVALUATION
(SUPPORTING INFORMATION AND CALCULATIONS)
THE FORMER WILLOW STREET STATION
MANUFACTURED GAS PLANT SITE,
1640 NORTH KINGSBURY PORTION

Table 1 Summary of R26 Transport Simulation - Soil Component of the Groundwater Pathway to Chicago River

Soil Sample	Constituent	Distance to Downgradient River Bank (ft)	Constituent Concentration in Soil (mg/kg)	Leaching Factor (kg/L)	Groundwater Concentration at Source (mg/L)	Groundwater Concentration at the River (mg/L)	Class II Groundwater Standard* (mg/L)	Distance to Meet Class II Groundwater Standard (ft)
SP03-001	Carbazole	170	2.9	0.145	0.421	4.50E-03	--	--
SP06-002	Benzene	90	0.78	4.116	3.21	1.20E-169	0.025	<1
	Naphthalene	90	27	0.24377	6.58	6.77E-294	0.22	<1
SP06-003	Lead	90	NA	NA	0.2**	6.01E-03	0.1	9.42
SB09-001	Benzene	40	0.19	4.116	0.782	5.37E-113	0.025	<1
	Carbazole	40	3.7	0.145	0.54	6.09E-02	--	--
SP10-002	Benzene	100	3.6	4.116	14.82	2.85E-178	0.025	<1
SP10-003	Benzene	100	0.92	4.116	3.79	7.29E-179	0.025	<1
	Naphthalene	100	27	0.24377	6.58	7.52E-310	0.22	<1
SB19-001	Carbazole	155	3.2	0.145	0.464	5.45E-03	--	--

Notes:
(1) * - Based on groundwater remediation objective for groundwater component of the groundwater ingestion route (IEPA, amended @ 26 Ill. Reg. 2683. Effective 5 February 2002)
(2) ** - Based upon the TCLP results.
(3) – Toxicity criteria not available for exposure route.
(4) NA – Not Applicable.

Table 1 Summary of R26 Transport Simulation - Soil Component of the Groundwater Pathway to Chicago River (Continued)

Soil Sample	Constituent	Distance to Downgradient River Bank (ft)	Constituent Concentration in Soil (mg/kg)	Leaching Factor (kg/L)	Groundwater Concentration at Source (mg/L)	Groundwater Concentration at the River (mg/L)	Class II Groundwater Standard* (mg/L)	Distance to Meet Class II Groundwater Standard (ft)
SB24-001	Carbazole	160	4.1	0.145	0.5945	6.77E-03	--	--
SB25-001	Benzene	200	1.5	4.116	6.174	2.46E-253	0.025	<1
SB25-002	Benzene	200	0.22	4.116	0.906	3.60E-254	0.025	<1
	Carbazole	200	5.7	0.145	0.817	7.44E-03	--	--
	Benzo(a)anthrancene	200	14	0.0012	0.017	3.16E-193	0.00065	<1
	Naphthalene	200	28	0.24377	6.83	0.00E+00	0.22	<1
SB32-001	Benzene	210	5.2	4.116	21.4	4.41E-259	0.025	<1
SB32-002	Benzene	210	0.77	4.116	3.17	6.53E-260	0.025	<1
SP43-002	Lead	220	NA	NA	0.21**	1.74E-03	0.1	9.97
SB47-001	Benzo(a)anthrancene	30	9	0.0012	0.0108	3.07E-75	0.00065	<1
	Naphthalene	30	33	0.24377	8.04	1.76E-168	0.22	<1

Notes:
(1) * - Based on groundwater remediation objective for groundwater component of the groundwater ingestion route (IEPA, amended @ 26 Ill. Reg. 2683. Effective 5 February 2002)
(2) ** - Based upon the TCLP results.
(3) – Toxicity criteria not available for exposure route.
(4) NA – Not Applicable.

Table 1 Summary of R26 Transport Simulation - Soil Component of the Groundwater Pathway to Chicago River (Continued)

Soil Sample	Constituent	Distance to Downgradient River Bank (ft)	Constituent Concentration in Soil (mg/kg)	Leaching Factor (kg/L)	Groundwater Concentration at Source (mg/L)	Groundwater Concentration at the River (mg/L)	Class II Groundwater Standard* (mg/L)	Distance to Meet Class II Groundwater Standard (ft)
SB48-001	Benzo(a)anthrancene	10	8.6	0.0012	0.0103	1.36E-43	0.00065	<1
SB50-002	Benzene	10	2.9	4.116	11.9	1.56E-54	0.025	<1
	Ethylbenzene	10	30	1.3374	40.122	8.49E-101	1.0	<1
	Naphthalene	10	44	0.24377	9.04	3.90E-96	0.22	<1
SB51-001	Benzene	10	3.7	4.116	15.2	1.91E-54	0.025	<1
	Carbazole	10	4.8	0.145	0.688	3.26E-01	--	--
	Benzo(a)anthrancene	10	17	0.0012	0.0204	2.59E-43	0.00065	<1
	Naphthalene	10	67	0.24377	13.80	5.52E-96	0.22	<1
SB52-001	Benzene	70	2.6	4.116	10.7	7.22E-149	0.025	<1
	Naphthalene	70	22	0.24377	5.36	5.73E-259	0.22	<1

Notes:
(1) * - Based on groundwater remediation objective for groundwater component of the groundwater ingestion route (IEPA, amended @ 26 Ill. Reg. 2683. Effective 5 February 2002)
(2) – Toxicity criteria not available for exposure route.

Table 1 Summary of R26 Transport Simulation - Soil Component of the Groundwater Pathway to Chicago River (Continued)

Soil Sample	Constituent	Distance to Downgradient River Bank (ft)	Constituent Concentration in Soil (mg/kg)	Leaching Factor (kg/L)	Groundwater Concentration at Source (mg/L)	Groundwater Concentration at the River (mg/L)	Class II Groundwater Standard* (mg/L)	Distance to Meet Class II Groundwater Standard (ft)
SB53-002	Benzene	10	0.21	4.116	0.864	1.08E-55	0.025	<1
	Carbazole	10	5.1	0.145	0.731	3.47E-01	--	--
	Benzo(a)anthrancene	10	14	0.0012	0.0168	2.14E-43	0.00065	<1
	Naphthalene	10	41	0.24377	9.99	4.01E-96	0.22	<1
SB54-001	Benzene	70	5.7	4.116	23.5	1.58E-148	0.025	<1
	Ethylbenzene	70	25	1.3374	33.345	3.16E-272	1.0	<1
	Naphthalene	70	110	0.24377	22.6	2.41E-258	0.22	<1
SB58-001	Carbazole	15	6.8	0.145	0.986	3.24E-01	--	--
	Benzo(a)anthracene	15	14	0.0012	0.0168	4.01E-53	0.00065	<1

Notes:
(1) * - Based on groundwater remediation objective for groundwater component of the groundwater ingestion route (IEPA, amended @ 26 Ill. Reg. 2683. Effective 5 February 2002)
(2) – Toxicity criteria not available for exposure route.

DATASHEETS

Datasheet A: Some Inputs of R26 Migration Simulation

Parameter	Units	Value
Thickness of Unsaturated Zone	ft	3.7
Thickness of Saturated Zone	ft	16.3
Soil Type (Saturated Zone)	ft	Silty clay
Total Organic Carbon	%	2.27
Hydraulic Gradient (i)	unitless	0.0126
Hydraulic Conductivity (K)	cm/s	5.37×10^{-9}*

Note:

1) * Site geophysical testing results show that the hydraulic conductivity is 5.37×10^{-9} cm/s. The K value from the field is too small to be accepted by TACO Plus software. Therefore, a conservative value of 5.37×10^{-8} cm/s is used in the calculations.

Datasheet B: Physical Soil Parameters for the RBCA Equations

Area(s)/Location(s) at the site, if applicable:

Predominant Soil Type (e.g., clay, sand, silty clay, etc.):

Surface (top 1 meter) or Subsurface (below 1 meter):

Site-specific values [i.e., field measurements (F =) or calculated values using the SSL equation (Sxx =)] are to be reported if they are used in developing the Tier 2 cleanup objectives. Acceptable procedures for obtaining these values are identified in Appendix C, Table F of TACO.

Parameter	Soil Type	Default Value	Units	Field Measurement or Calculated	Value
ρb (Soil Bulk Density)	Subsurface and/or Subsurface soils	1.5	kg/L	F =	
	Gravel	2.0			
	Sand	1.8			
	Silt	1.6		Surface	1.70
	Clay	1.7		Subsurface	1.70
w (Moisture Content)	Surface and/or Subsurface Soils	0.1	g_{water}/g_{soil} (unitless)		
	Surface Soils	0.1			
	Subsurface Soils	0.2			
foc (Organic Carbon Content)	Surface Soils	0.006	g/g (unitless)	Surface	
	Subsurface Soils	0.002		Subsurface	0.002
θ_T (Total Soil Porosity)	Surface and/or Subsurface Soils	0.43	cm^3/cm^3_{soil} (unitless)		
	Gravel	0.25			
	Sand	0.32			
	Silt	0.40		Surface	0.00
	Clay	0.36		Subsurface	0.36

Datasheet B: Physical Soil Parameters for the RBCA Equation (Continued)

Parameter	Soil Type	Default Value	Units	Field Measurement or Calculated	Value
θ_{as} (Air-filled Soil Porosity)	Surface Soils	0.28	cm^3_{air}/cm^3_{soil} (unitless)		
	Subsurface Soils	0.13			
	Gravel	0.05			
	Sand	0.14			
	Silt	0.24		Surface	0.00
	Clay	0.19		Subsurface	0.19
θ_{ws} (Water-filled Soil Porosity)	Surface Soils	0.15	cm^3_{water}/cm^3_{soil} (unitless)		
	Subsurface Soils	0.30			
	Gravel	0.20			
	Sand	0.18			
	Silt	0.16		Surface	0.00
	Clay	0.17		Subsurface	0.17

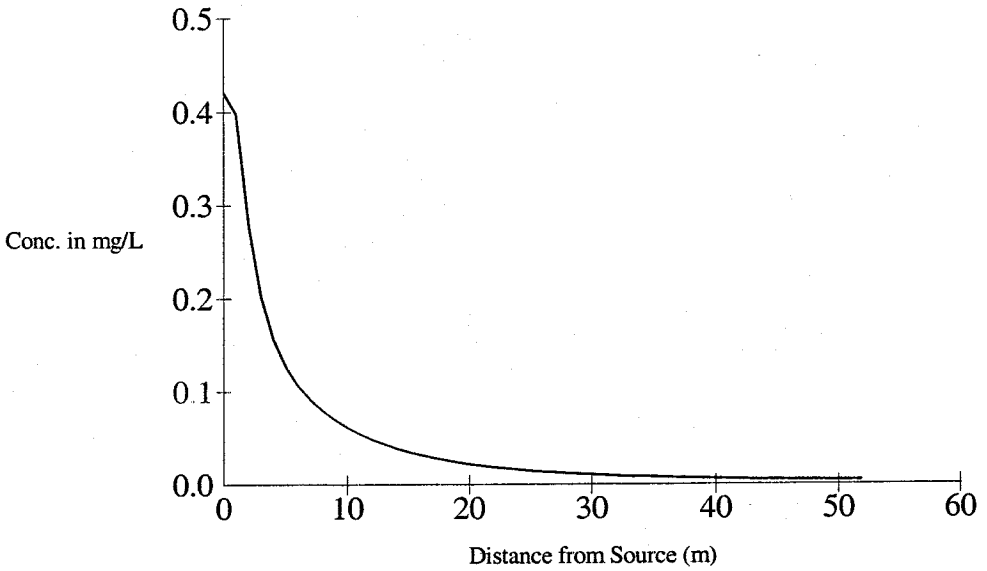
CALCULATIONS FOR CONCENTRATIONS AT THE NORTH BRANCH OF THE CHICAGO RIVER

SP03-001

Former Willow Street Station

Calculated Ground Water Information

Carbazole



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	4.21E-01
1	3.98E-01
2	2.81E-01
3	2.02E-01
4	1.56E-01
5	1.27E-01
6	1.06E-01
7	9.13E-02
8	7.94E-02
9	6.98E-02
10	6.16E-02
11	5.47E-02
12	4.88E-02
13	4.36E-02

Calculated Ground Water Concentrations

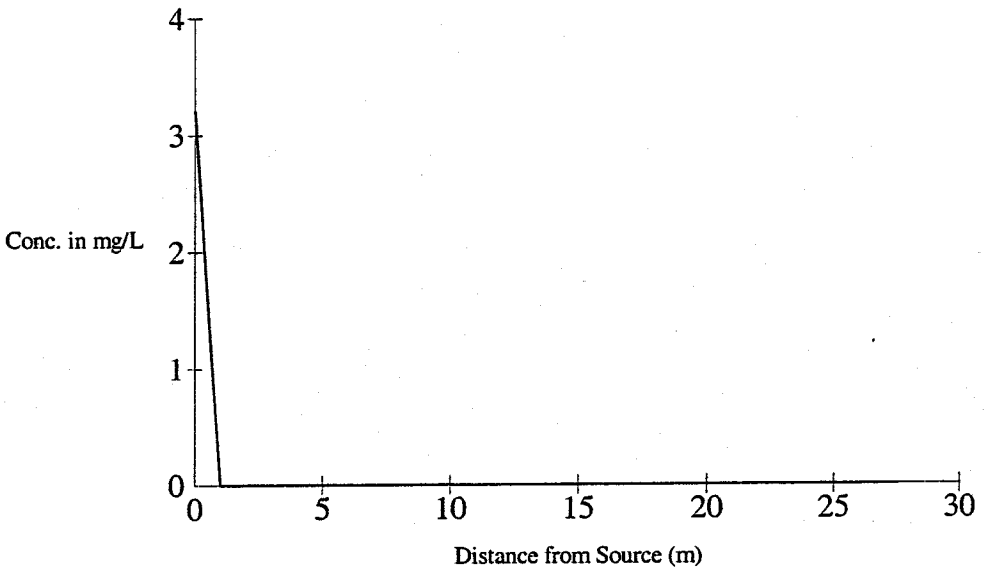
Distance from Source (m)	Calculated Concentration (mg/L)
14	3.92E-02
15	3.53E-02
16	3.19E-02
17	2.90E-02
18	2.64E-02
19	2.42E-02
20	2.21E-02
21	2.04E-02
22	1.88E-02
23	1.74E-02
24	1.61E-02
25	1.50E-02
26	1.39E-02
27	1.30E-02
28	1.22E-02
29	1.14E-02
30	1.07E-02
31	1.01E-02
32	9.50E-03
33	8.96E-03
34	8.47E-03
35	8.02E-03
36	7.60E-03
37	7.22E-03
38	6.86E-03
39	6.53E-03
40	6.22E-03
41	5.93E-03
42	5.66E-03
43	5.43E-03
44	5.30E-03
45	5.19E-03
46	5.07E-03
47	4.97E-03
48	4.86E-03
49	4.76E-03
50	4.67E-03
51	4.58E-03
51.816	4.50E-03

SP06-002

Former WIllow Street Station

Calculated Ground Water Information

Benzene



Distance to Meet Ground Water Objectives

Class I	Class II
0.02 m.	0.01 m.

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	3.21E+00
1	1.29E-30
2	3.39E-44
3	1.20E-54
4	1.86E-63
5	3.30E-71
6	3.27E-78
7	1.20E-84
8	1.22E-90
9	2.89E-96
10	1.38E-101
11	1.19E-106
12	1.73E-111
13	3.97E-116

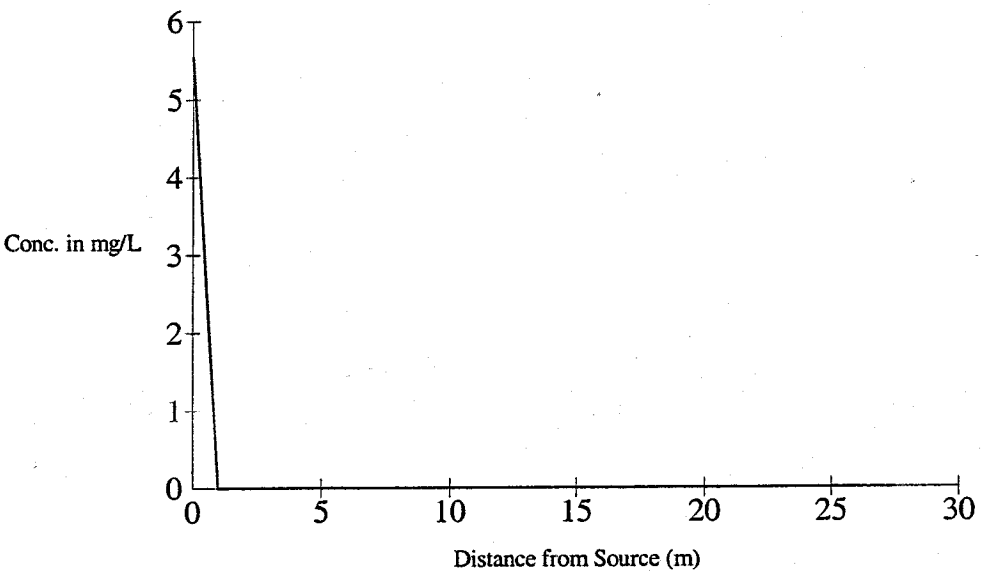
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
14	1.36E-120
15	6.68E-125
16	4.54E-129
17	4.16E-133
18	4.98E-137
19	7.65E-141
20	1.48E-144
21	3.53E-148
22	1.03E-151
23	3.58E-155
24	1.49E-158
25	7.26E-162
26	4.12E-165
27	2.70E-168
27.43	1.20E-169

Former WIllow Street Station

Calculated Ground Water Information

Naphthalene



Distance to Meet Ground Water Objectives

Class I	Class II
0.00 m.	0.00 m.

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	5.55E+00
1	4.06E-54
2	1.49E-77
3	1.45E-95
4	9.61E-111
5	4.14E-124
6	3.46E-136
7	2.73E-147
8	1.27E-157
9	2.50E-167
10	1.65E-176
11	3.07E-185
12	1.39E-193
13	1.38E-201

Calculated Ground Water Concentrations

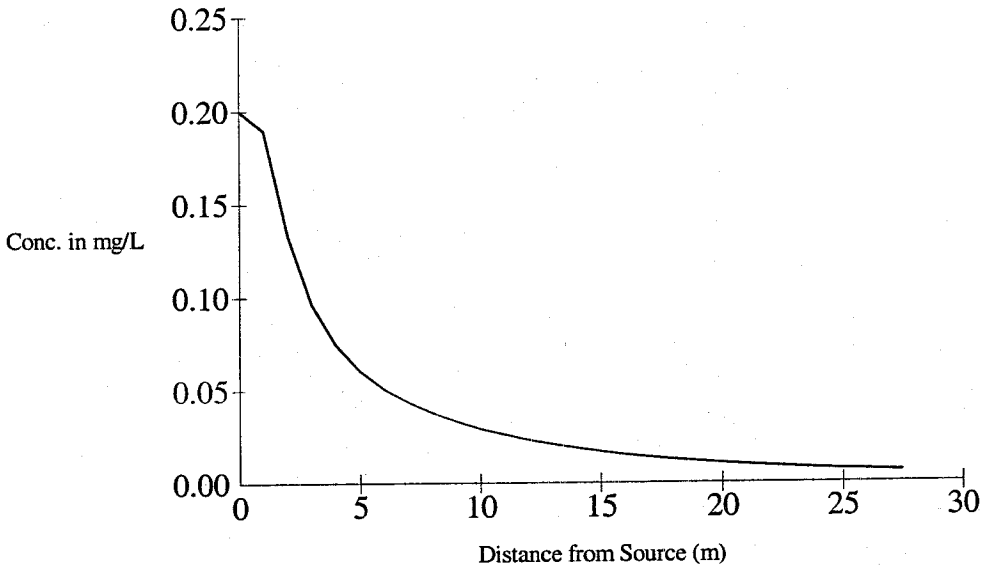
Distance from Source (m)	Calculated Concentration (mg/L)
14	2.75E-209
15	1.02E-216
16	6.63E-224
17	7.18E-231
18	1.24E-237
19	3.28E-244
20	1.29E-250
21	7.29E-257
22	5.79E-263
23	6.31E-269
24	9.25E-275
25	1.79E-280
26	4.50E-286
27	1.45E-291
27.43	6.77E-294

SP06-003

Peoples Gas - Former Willow Street Station

Calculated Ground Water Information

Lead



Distance to Meet Ground Water Objectives

Class I	Class II
24.28 m.	2.87 m.

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	2.00E-01
1	1.89E-01
2	1.33E-01
3	9.63E-02
4	7.43E-02
5	6.03E-02
6	5.06E-02
7	4.34E-02
8	3.78E-02
9	3.32E-02
10	2.93E-02
11	2.60E-02
12	2.32E-02
13	2.07E-02

Calculated Ground Water Concentrations

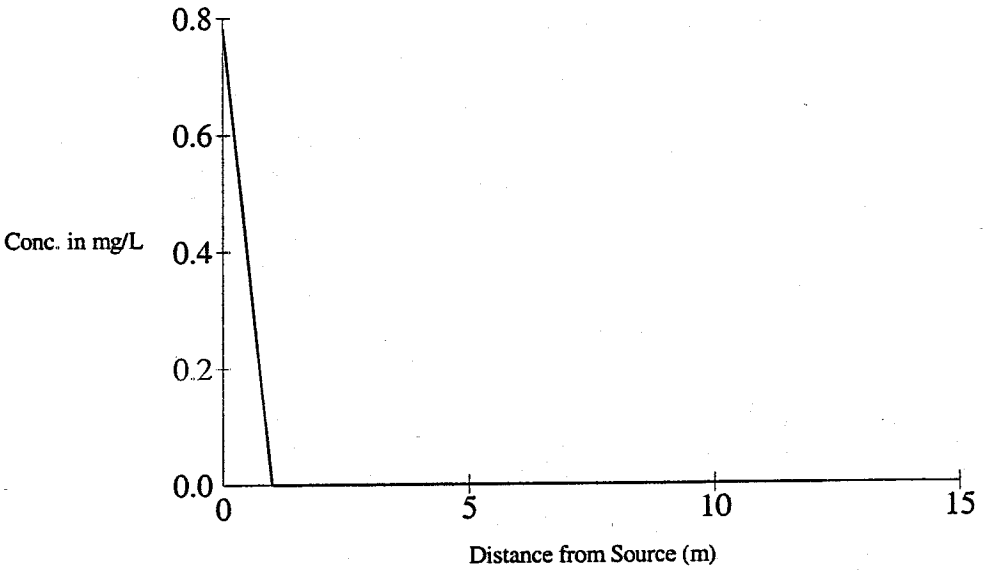
Distance from Source (m)	Calculated Concentration (mg/L)
14	1.86E-02
15	1.68E-02
16	1.52E-02
17	1.38E-02
18	1.26E-02
19	1.15E-02
20	1.05E-02
21	9.69E-03
22	8.93E-03
23	8.26E-03
24	7.66E-03
25	7.12E-03
26	6.63E-03
27	6.19E-03
27.43	6.01E-03

SB09-001

Former Willow Street Station

Calculated Ground Water Information

Benzene



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

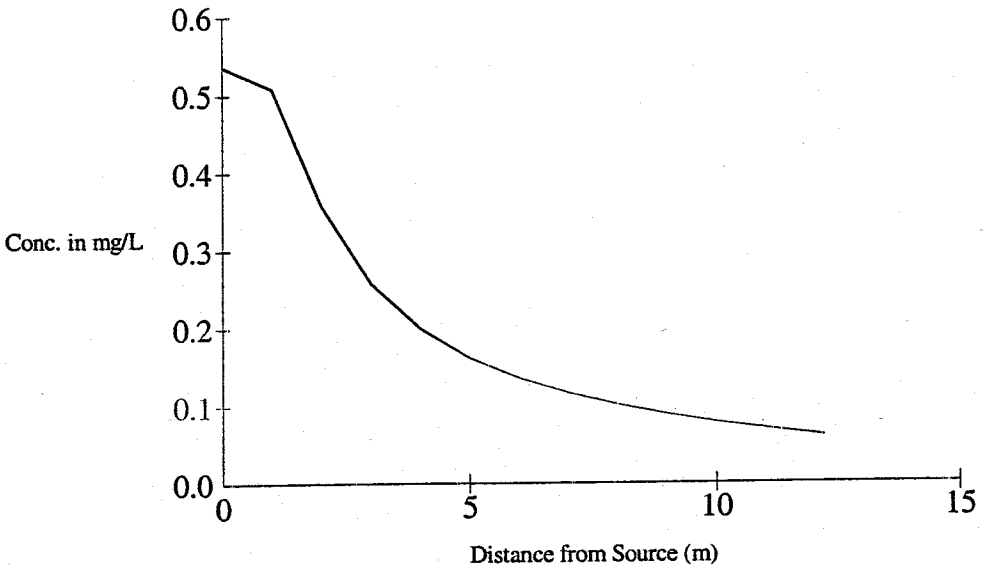
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	7.82E-01
1	3.15E-31
2	8.26E-45
3	2.91E-55
4	4.54E-64
5	8.03E-72
6	7.96E-79
7	2.91E-85
8	2.98E-91
9	7.05E-97
10	3.36E-102
11	2.91E-107
12	4.23E-112
12.19	5.37E-113

Former Willow Street Station

Calculated Ground Water Information

Carbazole



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

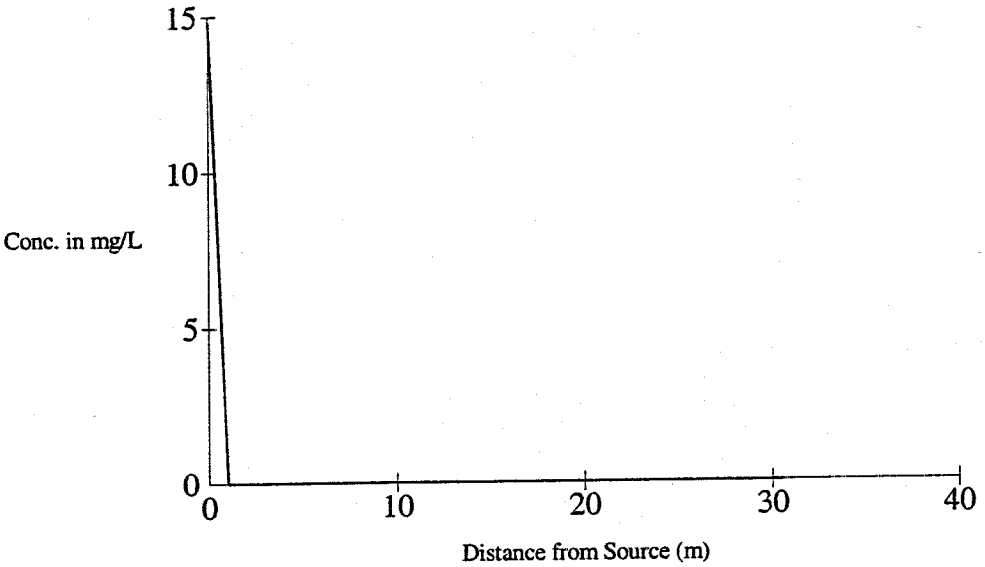
Distance from Source (m)	Calculated Concentration (mg/L)
0	5.36E-01
1	5.08E-01
2	3.58E-01
3	2.58E-01
4	1.99E-01
5	1.62E-01
6	1.36E-01
7	1.16E-01
8	1.01E-01
9	8.90E-02
10	7.86E-02
11	6.98E-02
12	6.22E-02
12.19	6.09E-02

SP10-002

Former Willow Street Station

Calculated Ground Water Information

Benzene



Distance to Meet Ground Water Objectives

Class I	Class II
0.03 m.	0.02 m.

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	1.48E+01
1	5.96E-30
2	1.56E-43
3	5.52E-54
4	8.60E-63
5	1.52E-70
6	1.51E-77
7	5.52E-84
8	5.64E-90
9	1.34E-95
10	6.36E-101
11	5.51E-106
12	8.01E-111
13	1.83E-115

Calculated Ground Water Concentrations

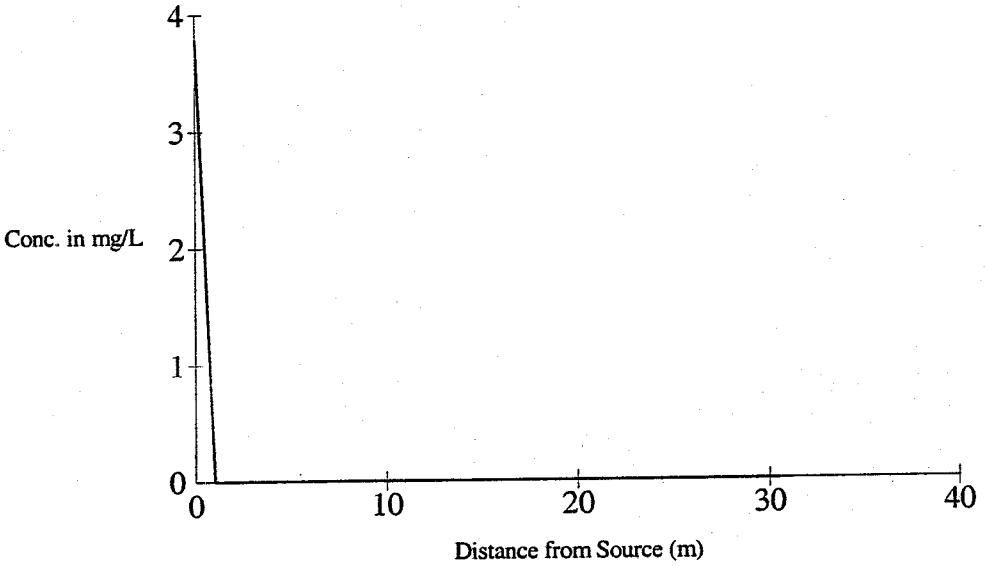
Distance from Source (m)	Calculated Concentration (mg/L)
14	6.27E-120
15	3.08E-124
16	2.10E-128
17	1.92E-132
18	2.30E-136
19	3.53E-140
20	6.82E-144
21	1.63E-147
22	4.73E-151
23	1.65E-154
24	6.87E-158
25	3.35E-161
26	1.90E-164
27	1.25E-167
28	9.35E-171
29	7.98E-174
30	7.68E-177
30.48	2.85E-178

SP10-003

Former Willow Street Station

Calculated Ground Water Information

Benzene



Distance to Meet Ground Water Objectives

Class I	Class II
0.02 m.	0.01 m.

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	3.79E+00
1	1.52E-30
2	4.00E-44
3	1.41E-54
4	2.20E-63
5	3.89E-71
6	3.86E-78
7	1.41E-84
8	1.44E-90
9	3.41E-96
10	1.63E-101
11	1.41E-106
12	2.05E-111
13	4.68E-116

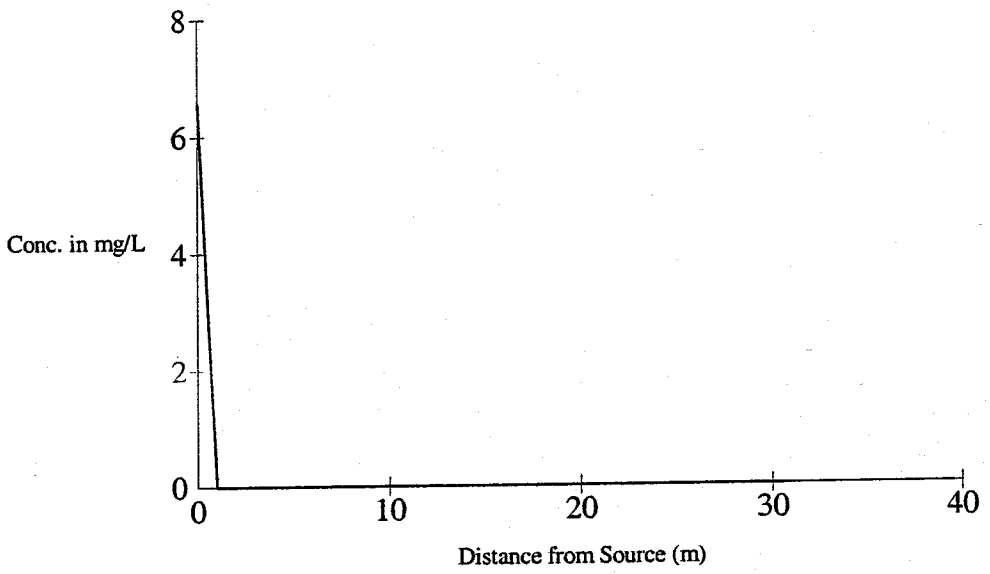
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
14	1.60E-120
15	7.88E-125
16	5.36E-129
17	4.90E-133
18	5.88E-137
19	9.02E-141
20	1.74E-144
21	4.16E-148
22	1.21E-151
23	4.23E-155
24	1.76E-158
25	8.56E-162
26	4.86E-165
27	3.19E-168
28	2.39E-171
29	2.04E-174
30	1.96E-177
30.48	7.29E-179

Former Willow Street Station

Calculated Ground Water Information

Naphthalene



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	6.58E+00
1	4.82E-54
2	1.77E-77
3	1.72E-95
4	1.14E-110
5	4.91E-124
6	4.11E-136
7	3.24E-147
8	1.51E-157
9	2.97E-167
10	1.96E-176
11	3.64E-185
12	1.65E-193
13	1.64E-201

Calculated Ground Water Concentrations

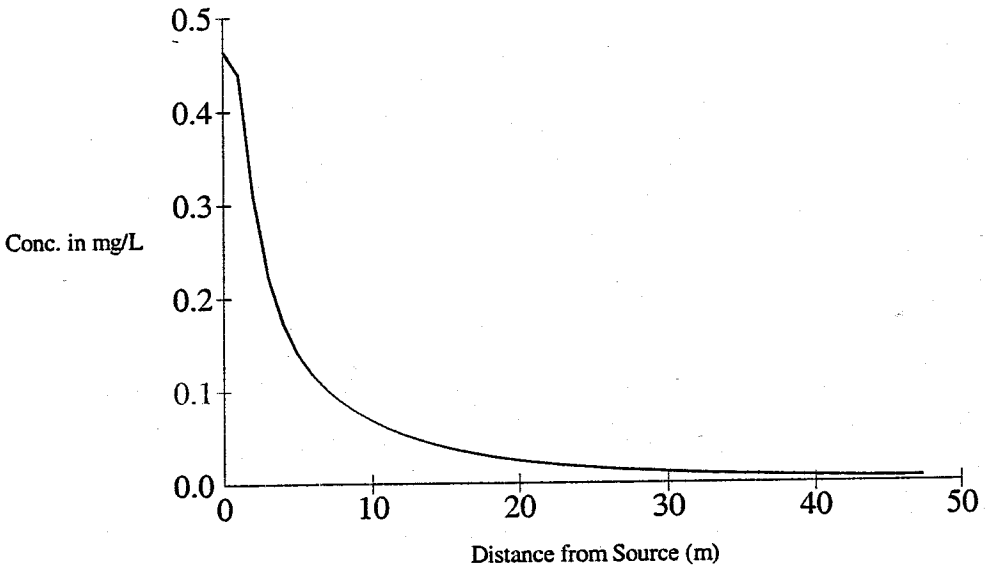
Distance from Source (m)	Calculated Concentration (mg/L)
14	3.26E-209
15	1.21E-216
16	7.87E-224
17	8.52E-231
18	1.47E-237
19	3.89E-244
20	1.53E-250
21	8.65E-257
22	6.87E-263
23	7.49E-269
24	1.10E-274
25	2.13E-280
26	5.34E-286
27	1.72E-291
28	6.98E-297
29	3.53E-302
30	2.21E-307
30.48	7.52E-310

SB19-001

Former Willow Street Station

Calculated Ground Water Information

Carbazole



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	4.64E-01
1	4.39E-01
2	3.10E-01
3	2.23E-01
4	1.72E-01
5	1.40E-01
6	1.17E-01
7	1.01E-01
8	8.76E-02
9	7.70E-02
10	6.80E-02
11	6.04E-02
12	5.38E-02
13	4.81E-02

Calculated Ground Water Concentrations

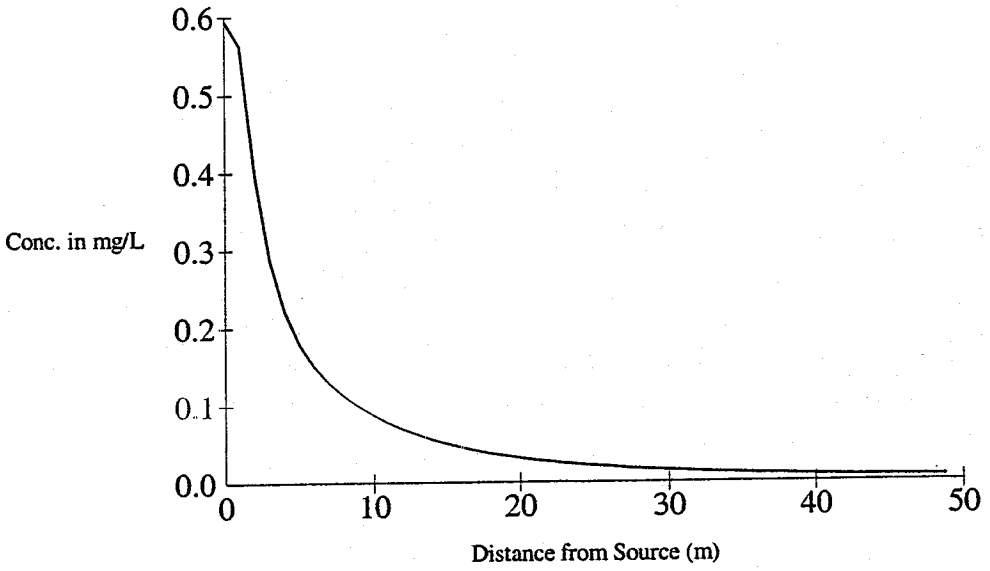
Distance from Source (m)	Calculated Concentration (mg/L)
14	4.32E-02
15	3.90E-02
16	3.53E-02
17	3.20E-02
18	2.92E-02
19	2.66E-02
20	2.44E-02
21	2.25E-02
22	2.07E-02
23	1.92E-02
24	1.78E-02
25	1.65E-02
26	1.54E-02
27	1.44E-02
28	1.34E-02
29	1.26E-02
30	1.18E-02
31	1.11E-02
32	1.05E-02
33	9.89E-03
34	9.35E-03
35	8.85E-03
36	8.39E-03
37	7.96E-03
38	7.57E-03
39	7.20E-03
40	6.86E-03
41	6.54E-03
42	6.25E-03
43	5.99E-03
44	5.85E-03
45	5.72E-03
46	5.60E-03
47	5.48E-03
47.24	5.45E-03

SB24-001

Former Willow Street Station

Calculated Ground Water Information

Carbazole



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	5.95E-01
1	5.63E-01
2	3.97E-01
3	2.86E-01
4	2.21E-01
5	1.79E-01
6	1.50E-01
7	1.29E-01
8	1.12E-01
9	9.86E-02
10	8.71E-02
11	7.73E-02
12	6.89E-02
13	6.17E-02

Calculated Ground Water Concentrations

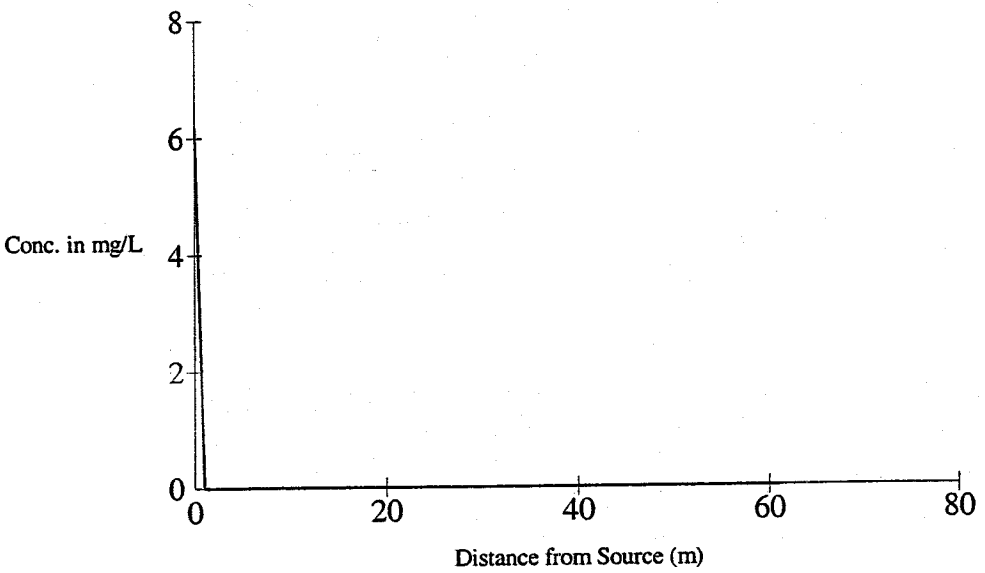
Distance from Source (m)	Calculated Concentration (mg/L)
14	5.54E-02
15	4.99E-02
16	4.52E-02
17	4.10E-02
18	3.74E-02
19	3.41E-02
20	3.13E-02
21	2.88E-02
22	2.65E-02
23	2.46E-02
24	2.28E-02
25	2.12E-02
26	1.97E-02
27	1.84E-02
28	1.72E-02
29	1.61E-02
30	1.51E-02
31	1.42E-02
32	1.34E-02
33	1.27E-02
34	1.20E-02
35	1.13E-02
36	1.07E-02
37	1.02E-02
38	9.70E-03
39	9.23E-03
40	8.79E-03
41	8.38E-03
42	8.00E-03
43	7.67E-03
44	7.50E-03
45	7.33E-03
46	7.17E-03
47	7.02E-03
48	6.87E-03
48.77	6.77E-03

SP25-001

Former Willow Street Station

Calculated Ground Water Information

Benzene



Distance to Meet Ground Water Objectives

Class I	Class II
0.02 m.	0.02 m.

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	6.17E+00
1	2.48E-30
2	6.52E-44
3	2.30E-54
4	3.58E-63
5	6.34E-71
6	6.29E-78
7	2.30E-84
8	2.35E-90
9	5.56E-96
10	2.65E-101
11	2.30E-106
12	3.34E-111
13	7.64E-116

Calculated Ground Water Concentrations

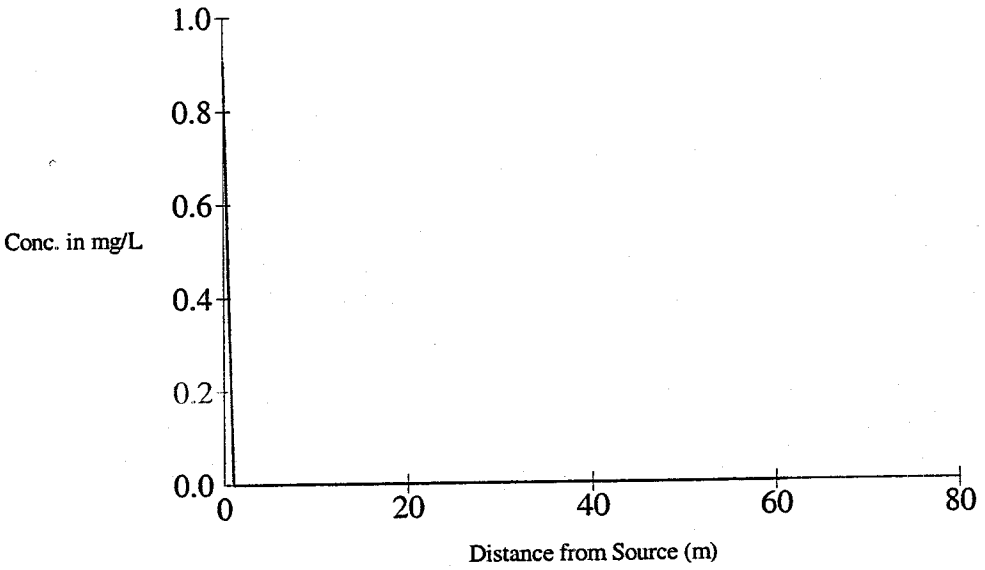
Distance from Source (m)	Calculated Concentration (mg/L)
14	2.61E-120
15	1.28E-124
16	8.74E-129
17	7.99E-133
18	9.58E-137
19	1.47E-140
20	2.84E-144
21	6.78E-148
22	1.97E-151
23	6.89E-155
24	2.86E-158
25	1.40E-161
26	7.93E-165
27	5.19E-168
28	3.90E-171
29	3.32E-174
30	3.20E-177
31	3.46E-180
32	4.17E-183
33	5.59E-186
34	8.29E-189
35	1.35E-191
36	2.41E-194
37	4.71E-197
38	9.99E-200
39	2.30E-202
40	5.72E-205
41	1.53E-207
42	4.42E-210
43	1.37E-212
44	4.63E-215
45	1.67E-217
46	6.39E-220
47	2.60E-222
48	1.12E-224
49	5.13E-227
50	2.48E-229
51	1.26E-231
52	6.76E-234
53	3.81E-236
54	2.26E-238
55	1.40E-240
56	9.11E-243
57	6.19E-245
58	4.40E-247
59	3.26E-249
60	2.52E-251
60.96	2.46E-253

SB25-002

Former Willow Street Station

Calculated Ground Water Information

Benzene



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	9.06E-01
1	3.64E-31
2	9.56E-45
3	3.37E-55
4	5.26E-64
5	9.30E-72
6	9.22E-79
7	3.37E-85
8	3.45E-91
9	8.16E-97
10	3.89E-102
11	3.37E-107
12	4.89E-112
13	1.12E-116

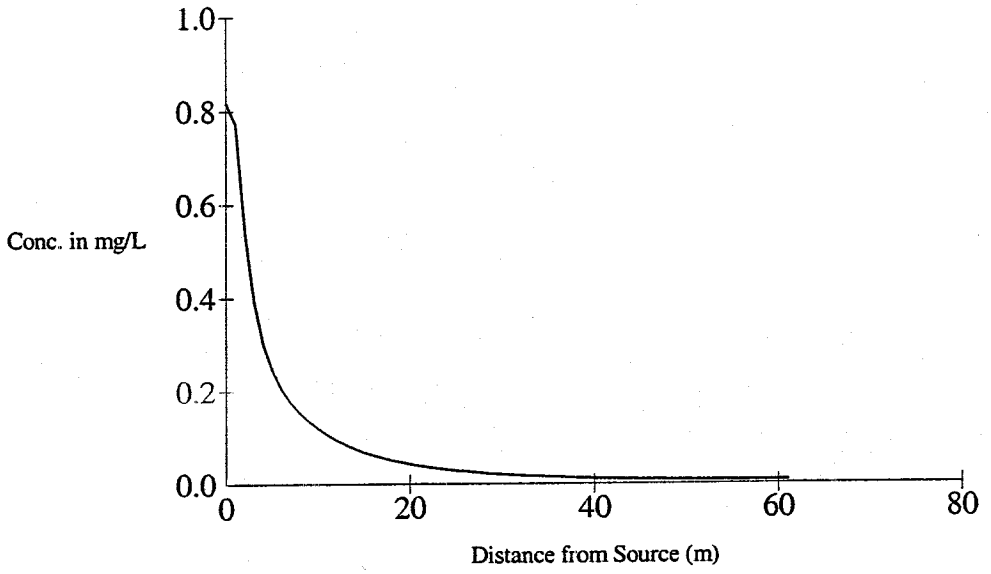
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
14	3.83E-121
15	1.88E-125
16	1.28E-129
17	1.17E-133
18	1.40E-137
19	2.16E-141
20	4.17E-145
21	9.95E-149
22	2.89E-152
23	1.01E-155
24	4.20E-159
25	2.05E-162
26	1.16E-165
27	7.62E-169
28	5.72E-172
29	4.87E-175
30	4.69E-178
31	5.07E-181
32	6.12E-184
33	8.20E-187
34	1.22E-189
35	1.98E-192
36	3.54E-195
37	6.90E-198
38	1.46E-200
39	3.37E-203
40	8.39E-206
41	2.25E-208
42	6.48E-211
43	2.01E-213
44	6.78E-216
45	2.44E-218
46	9.37E-221
47	3.82E-223
48	1.65E-225
49	7.53E-228
50	3.63E-230
51	1.85E-232
52	9.92E-235
53	5.59E-237
54	3.31E-239
55	2.06E-241
56	1.34E-243
57	9.08E-246
58	6.45E-248
59	4.78E-250
60	3.70E-252
60.96	3.60E-254

Former Willow Street Station

Calculated Ground Water Information

Carbazole



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	8.17E-01
1	7.74E-01
2	5.45E-01
3	3.93E-01
4	3.04E-01
5	2.46E-01
6	2.07E-01
7	1.77E-01
8	1.54E-01
9	1.35E-01
10	1.20E-01
11	1.06E-01
12	9.47E-02
13	8.47E-02

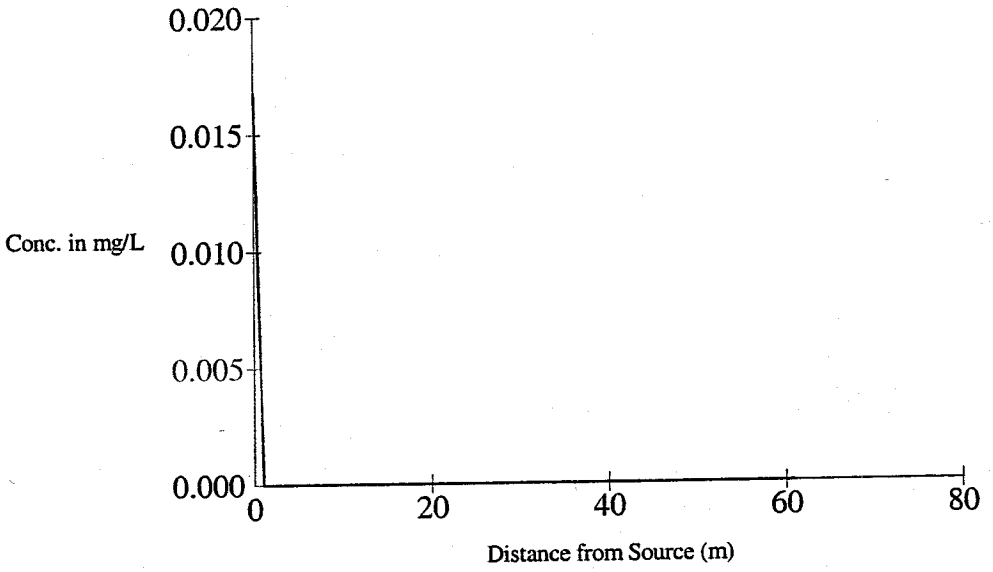
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
14	7.61E-02
15	6.86E-02
16	6.21E-02
17	5.63E-02
18	5.13E-02
19	4.69E-02
20	4.30E-02
21	3.96E-02
22	3.65E-02
23	3.37E-02
24	3.13E-02
25	2.91E-02
26	2.71E-02
27	2.53E-02
28	2.36E-02
29	2.22E-02
30	2.08E-02
31	1.96E-02
32	1.84E-02
33	1.74E-02
34	1.65E-02
35	1.56E-02
36	1.48E-02
37	1.40E-02
38	1.33E-02
39	1.27E-02
40	1.21E-02
41	1.15E-02
42	1.10E-02
43	1.05E-02
44	1.03E-02
45	1.01E-02
46	9.86E-03
47	9.65E-03
48	9.44E-03
49	9.25E-03
50	9.07E-03
51	8.89E-03
52	8.72E-03
53	8.55E-03
54	8.40E-03
55	8.24E-03
56	8.10E-03
57	7.95E-03
58	7.82E-03
59	7.68E-03
60	7.56E-03
60.96	7.44E-03

Former Willow Street Station

Calculated Ground Water Information

Benzo(a)anthracene



Distance to Meet Ground Water Objectives

Class I	Class II
0.02 m.	0.01 m.

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	1.68E-02
1	6.82E-25
2	3.85E-35
3	4.86E-43
4	1.08E-49
5	1.50E-55
6	7.71E-61
7	1.06E-65
8	3.19E-70
9	1.80E-74
10	1.72E-78
11	2.59E-82
12	5.75E-86
13	1.80E-89

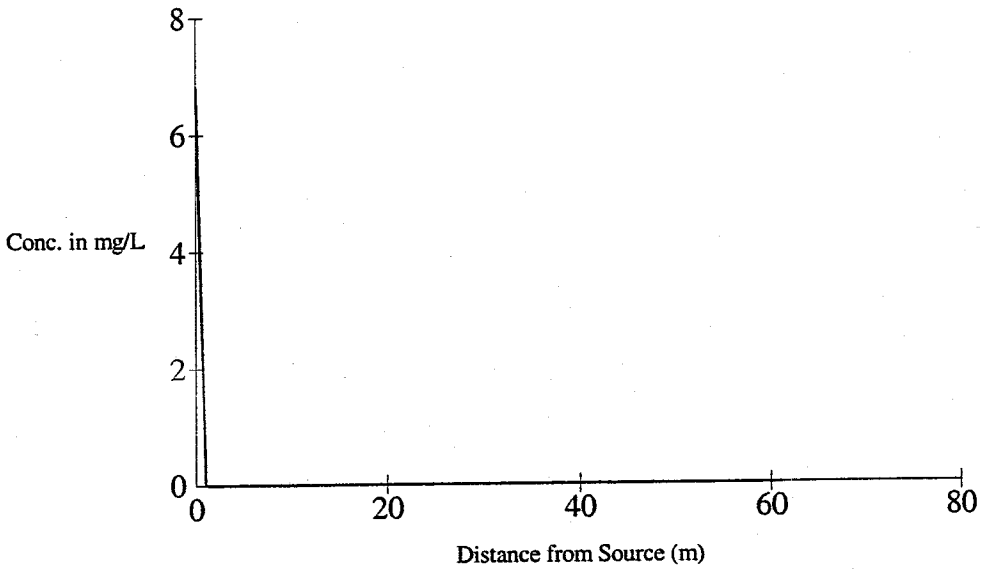
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
14	7.63E-93
15	4.25E-96
16	3.03E-99
17	2.70E-102
18	2.94E-105
19	3.88E-108
20	6.08E-111
21	1.12E-113
22	2.39E-116
23	5.86E-119
24	1.64E-121
25	5.17E-124
26	1.83E-126
27	7.22E-129
28	3.16E-131
29	1.52E-133
30	8.03E-136
31	4.63E-138
32	2.90E-140
33	1.97E-142
34	1.44E-144
35	1.13E-146
36	9.53E-149
37	8.59E-151
38	8.24E-153
39	8.42E-155
40	9.11E-157
41	1.04E-158
42	1.26E-160
43	1.62E-162
44	2.22E-164
45	3.19E-166
46	4.82E-168
47	7.61E-170
48	1.26E-171
49	2.16E-173
50	3.89E-175
51	7.27E-177
52	1.41E-178
53	2.85E-180
54	5.97E-182
55	1.30E-183
56	2.91E-185
57	6.78E-187
58	1.63E-188
59	4.04E-190
60	1.04E-191
60.96	3.16E-193

Former Willow Street Station

Calculated Ground Water Information

Naphthalene



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	6.83E+00
1	5.00E-54
2	1.83E-77
3	1.78E-95
4	1.18E-110
5	5.10E-124
6	4.26E-136
7	3.36E-147
8	1.56E-157
9	3.08E-167
10	2.04E-176
11	3.77E-185
12	1.71E-193
13	1.70E-201

Calculated Ground Water Concentrations

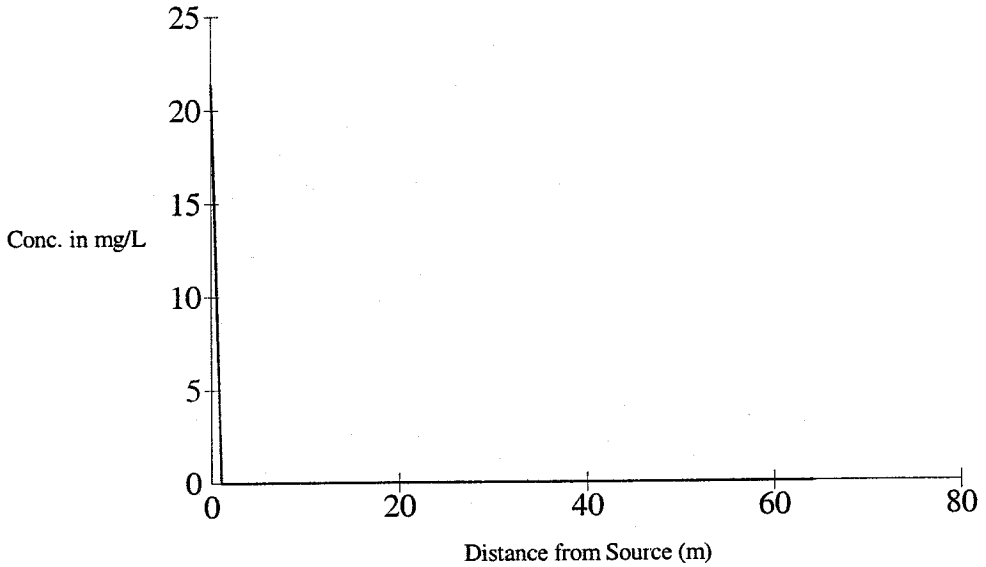
Distance from Source (m)	Calculated Concentration (mg/L)
14	3.38E-209
15	1.25E-216
16	8.16E-224
17	8.84E-231
18	1.53E-237
19	4.04E-244
20	1.59E-250
21	8.97E-257
22	7.12E-263
23	7.77E-269
24	1.14E-274
25	2.20E-280
26	5.54E-286
27	1.78E-291
28	7.24E-297
29	3.66E-302
30	2.29E-307
31	1.74E-312
32	1.60E-317
33	1.68E-322
34	0.00E+00
35	0.00E+00
36	0.00E+00
37	0.00E+00
38	0.00E+00
39	0.00E+00
40	0.00E+00
41	0.00E+00
42	0.00E+00
43	0.00E+00
44	0.00E+00
45	0.00E+00
46	0.00E+00
47	0.00E+00
48	0.00E+00
49	0.00E+00
50	0.00E+00
51	0.00E+00
52	0.00E+00
53	0.00E+00
54	0.00E+00
55	0.00E+00
56	0.00E+00
57	0.00E+00
58	0.00E+00
59	0.00E+00
60	0.00E+00
60.96	0.00E+00

SB32-001

Former Willow Street Station

Calculated Ground Water Information

Benzene



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	2.14E+01
1	8.61E-30
2	2.26E-43
3	7.97E-54
4	1.24E-62
5	2.20E-70
6	2.18E-77
7	7.97E-84
8	8.15E-90
9	1.93E-95
10	9.19E-101
11	7.96E-106
12	1.16E-110
13	2.65E-115

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
14	9.06E-120
15	4.45E-124
16	3.03E-128
17	2.77E-132
18	3.32E-136
19	5.10E-140
20	9.85E-144
21	2.35E-147
22	6.84E-151
23	2.39E-154
24	9.92E-158
25	4.84E-161
26	2.75E-164
27	1.80E-167
28	1.35E-170
29	1.15E-173
30	1.11E-176
31	1.20E-179
32	1.45E-182
33	1.94E-185
34	2.87E-188
35	4.68E-191
36	8.36E-194
37	1.63E-196
38	3.46E-199
39	7.97E-202
40	1.98E-204
41	5.31E-207
42	1.53E-209
43	4.75E-212
44	1.60E-214
45	5.78E-217
46	2.21E-219
47	9.02E-222
48	3.89E-224
49	1.78E-226
50	8.59E-229
51	4.37E-231
52	2.34E-233
53	1.32E-235
54	7.83E-238
55	4.86E-240
56	3.16E-242
57	2.15E-244
58	1.53E-246
59	1.13E-248
60	8.73E-251
61	7.03E-253
62	5.88E-255
63	5.12E-257
64	4.62E-259
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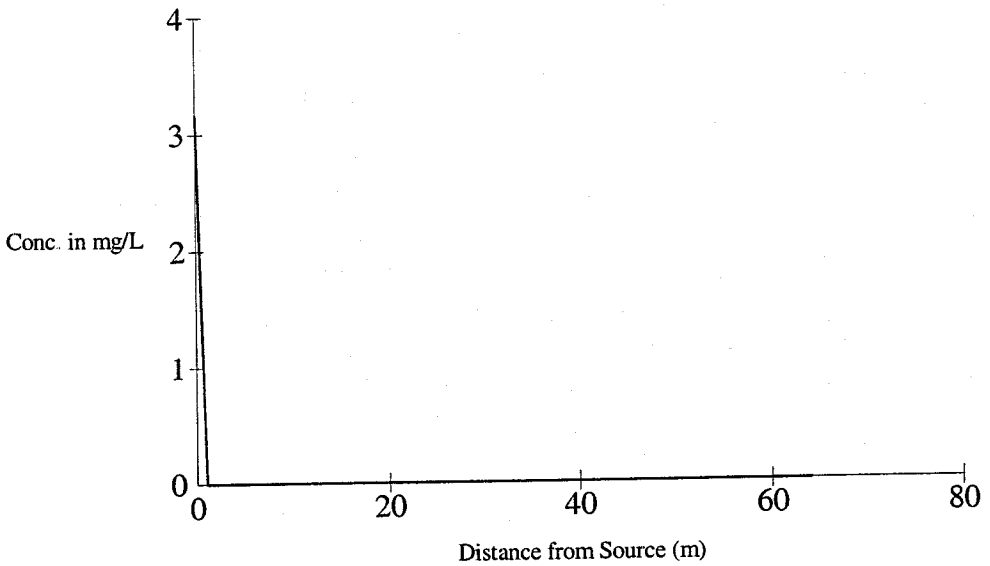
SB32-002

Former Willow Street Station

Calculated Ground Water Information

Benzene



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	3.17E+00
1	1.28E-30
2	3.35E-44
3	1.18E-54
4	1.84E-63
5	3.25E-71
6	3.23E-78
7	1.18E-84
8	1.21E-90
9	2.86E-96
10	1.36E-101
11	1.18E-106
12	1.71E-111
13	3.92E-116

Calculated Ground Water Concentrations

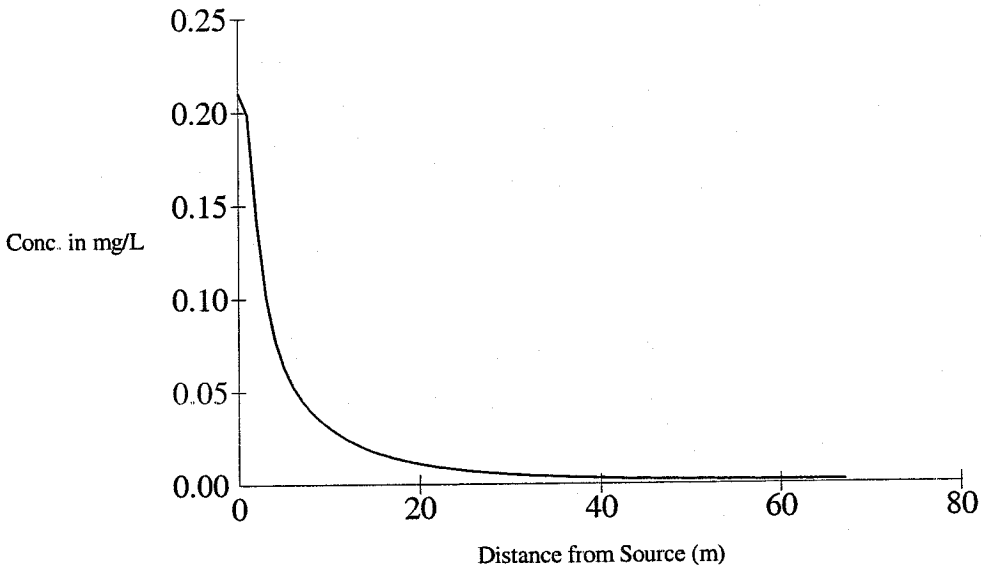
Distance from Source (m)	Calculated Concentration (mg/L)
14	1.34E-120
15	6.59E-125
16	4.49E-129
17	4.10E-133
18	4.92E-137
19	7.55E-141
20	1.46E-144
21	3.48E-148
22	1.01E-151
23	3.54E-155
24	1.47E-158
25	7.17E-162
26	4.07E-165
27	2.67E-168
28	2.00E-171
29	1.71E-174
30	1.64E-177
31	1.78E-180
32	2.14E-183
33	2.87E-186
34	4.25E-189
35	6.93E-192
36	1.24E-194
37	2.42E-197
38	5.13E-200
39	1.18E-202
40	2.93E-205
41	7.87E-208
42	2.27E-210
43	7.03E-213
44	2.37E-215
45	8.55E-218
46	3.28E-220
47	1.34E-222
48	5.77E-225
49	2.63E-227
50	1.27E-229
51	6.48E-232
52	3.47E-234
53	1.96E-236
54	1.16E-238
55	7.19E-241
56	4.68E-243
57	3.18E-245
58	2.26E-247
59	1.67E-249
60	1.29E-251
61	1.04E-253
62	8.71E-256
63	7.58E-258
64	6.84E-260
64.01	6.53E-260

SP43-002

Peoples Gas - Former Willow Street Station

Calculated Ground Water Information

Lead



Distance to Meet Ground Water Objectives

Class I	Class II
24.95 m.	3.04 m.

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	2.10E-01
1	1.99E-01
2	1.40E-01
3	1.01E-01
4	7.81E-02
5	6.33E-02
6	5.31E-02
7	4.56E-02
8	3.97E-02
9	3.48E-02
10	3.08E-02
11	2.73E-02
12	2.43E-02
13	2.18E-02

Calculated Ground Water Concentrations

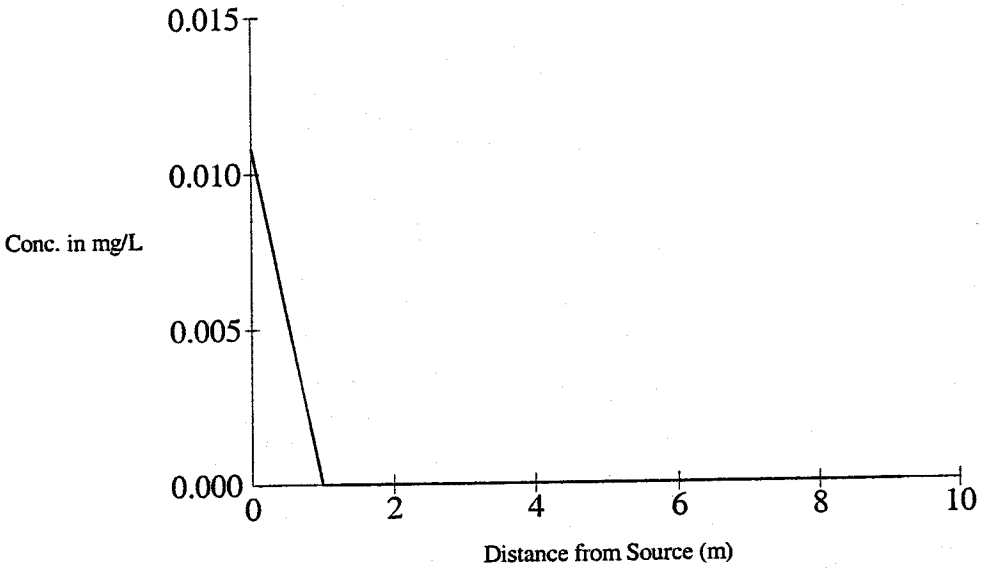
Distance from Source (m)	Calculated Concentration (mg/L)
14	1.96E-02
15	1.76E-02
16	1.60E-02
17	1.45E-02
18	1.32E-02
19	1.21E-02
20	1.11E-02
21	1.02E-02
22	9.38E-03
23	8.67E-03
24	8.04E-03
25	7.47E-03
26	6.96E-03
27	6.50E-03
28	6.08E-03
29	5.70E-03
30	5.35E-03
31	5.03E-03
32	4.74E-03
33	4.48E-03
34	4.23E-03
35	4.01E-03
36	3.80E-03
37	3.60E-03
38	3.43E-03
39	3.26E-03
40	3.10E-03
41	2.96E-03
42	2.83E-03
43	2.71E-03
44	2.65E-03
45	2.59E-03
46	2.53E-03
47	2.48E-03
48	2.43E-03
49	2.38E-03
50	2.33E-03
51	2.29E-03
52	2.24E-03
53	2.20E-03
54	2.16E-03
55	2.12E-03
56	2.08E-03
57	2.04E-03
58	2.01E-03
59	1.98E-03
60	1.94E-03
61	1.91E-03
62	1.88E-03
63	1.85E-03
64	1.82E-03
65	1.79E-03
66	1.77E-03
67	1.74E-03
67.06	1.74E-03

SB47-001

Former Willow Street Station

Calculated Ground Water Information

Benzo(a)anthracene



Distance to Meet Ground Water Objectives

Class I	Class II
0.02 m.	0.01 m.

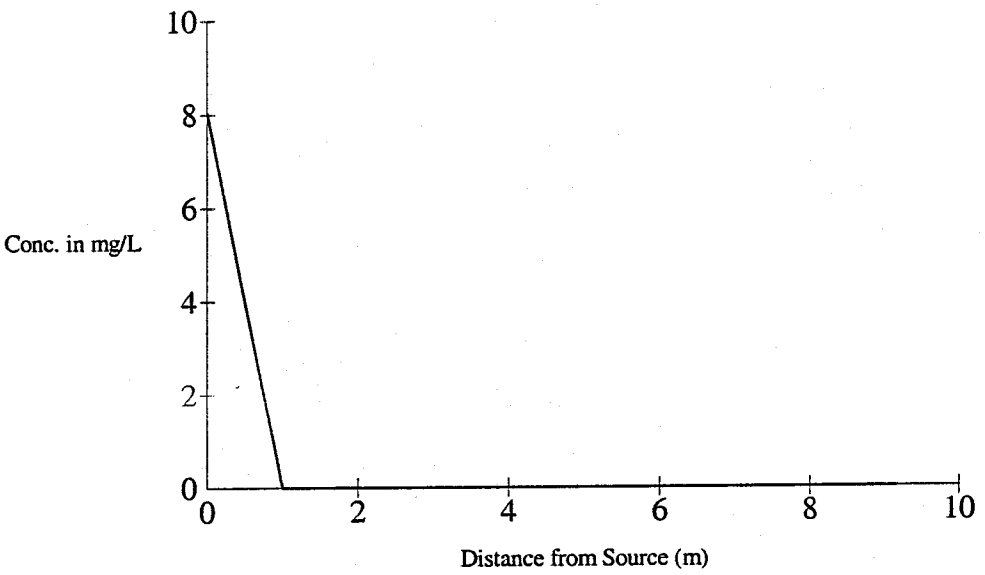
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	1.08E-02
1	4.38E-25
2	2.47E-35
3	3.13E-43
4	6.93E-50
5	9.65E-56
6	4.96E-61
7	6.83E-66
8	2.05E-70
9	1.16E-74
9.14	3.07E-75

Former Willow Street Station

Calculated Ground Water Information

Naphthalene



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

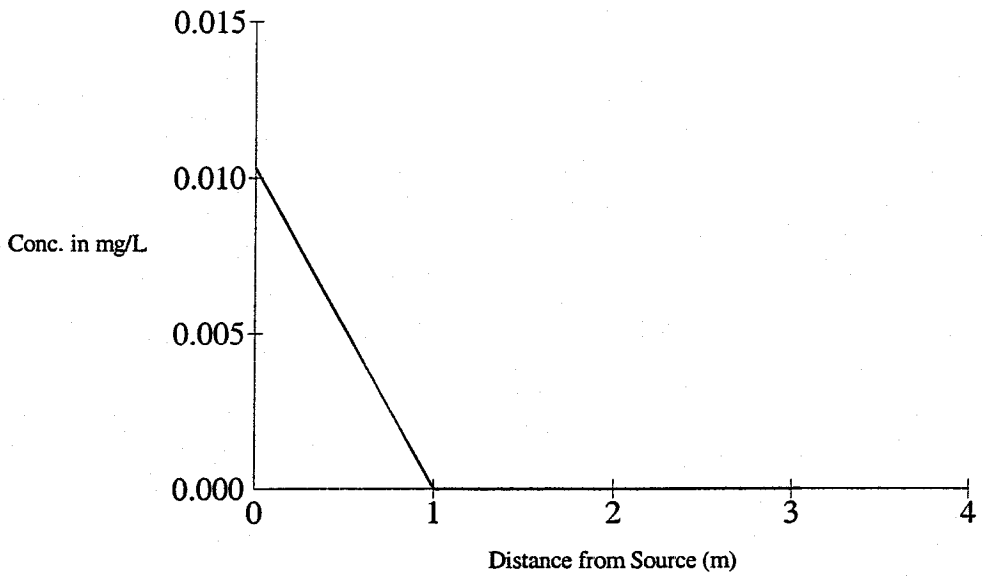
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	8.04E+00
1	5.89E-54
2	2.16E-77
3	2.10E-95
4	1.39E-110
5	6.01E-124
6	5.02E-136
7	3.96E-147
8	1.84E-157
9	3.63E-167
9.14	1.76E-168

Former Willow Street Station

Calculated Ground Water Information

Benzo(a)anthracene



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

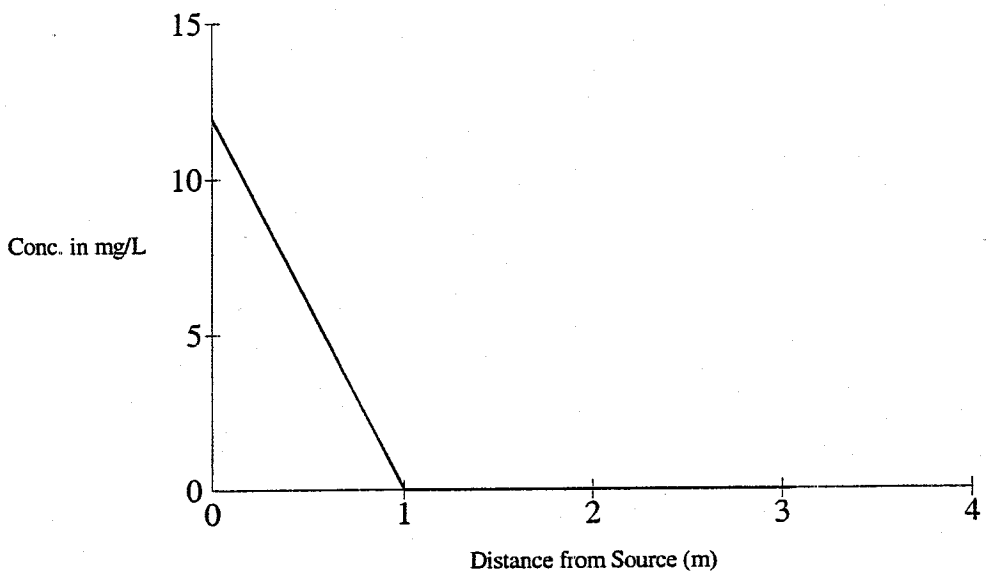
Distance from Source (m)	Calculated Concentration (mg/L)
0	1.03E-02
1	4.19E-25
2	2.36E-35
3	2.99E-43
3.048	1.36E-43

SB50-002

Former Willow Street Station

Calculated Ground Water Information

Benzene



Distance to Meet Ground Water Objectives

Class I	Class II
0.02 m.	0.02 m.

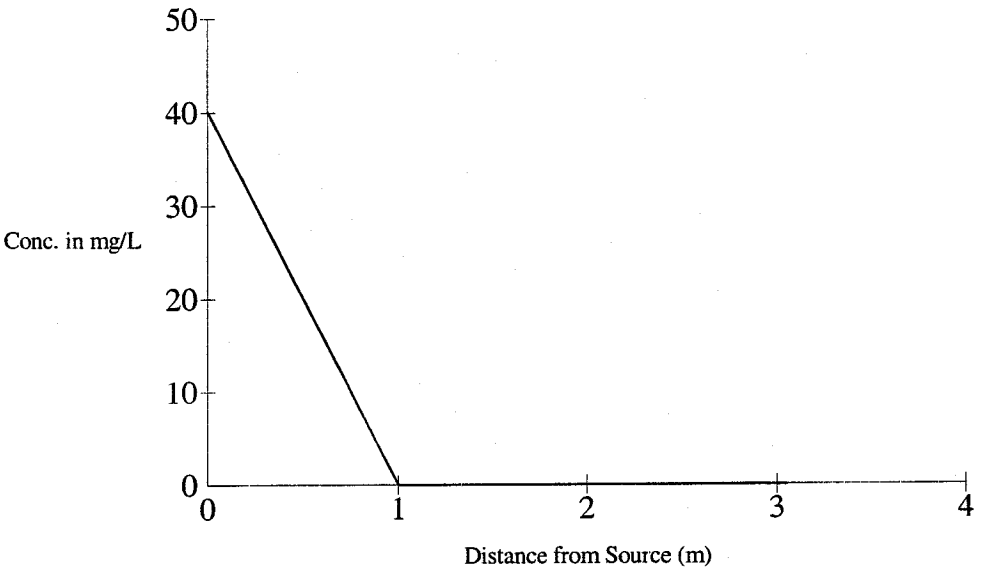
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	1.19E+01
1	4.80E-30
2	1.26E-43
3	4.45E-54
3.048	1.56E-54

Former Willow Street Station

Calculated Ground Water Information

Ethylbenzene



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

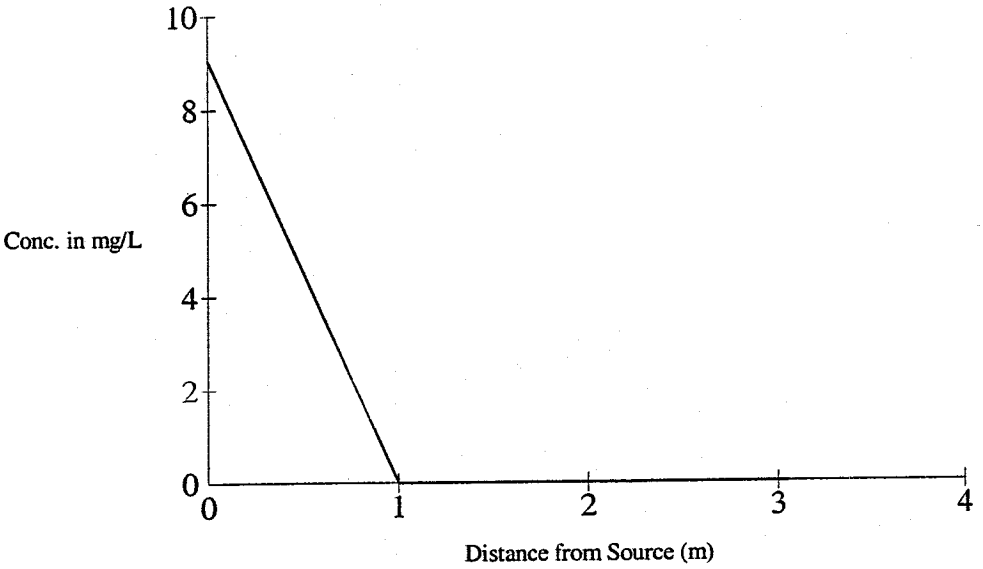
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	4.01E+01
1	2.68E-56
2	5.39E-81
3	5.66E-100
3.048	8.49E-101

Former Willow Street Station

Calculated Ground Water Information

Naphthalene



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

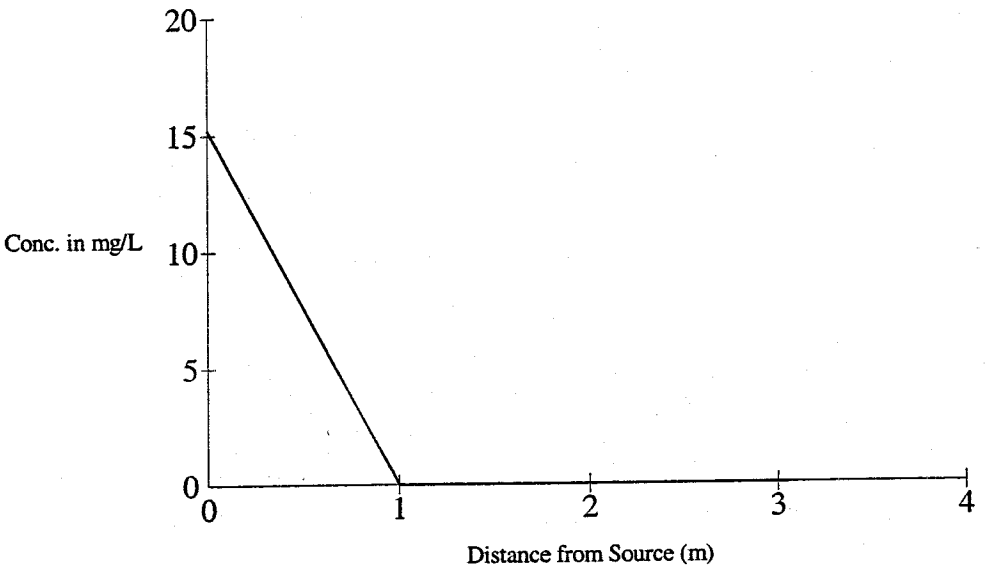
Distance from Source (m)	Calculated Concentration (mg/L)
0	9.04E+00
1	6.62E-54
2	2.43E-77
3	2.36E-95
3.048	3.90E-96

SB51-001

Former Willow Street Station

Calculated Ground Water Information

Benzene



Distance to Meet Ground Water Objectives

Class I	Class II
0.03 m.	0.02 m.

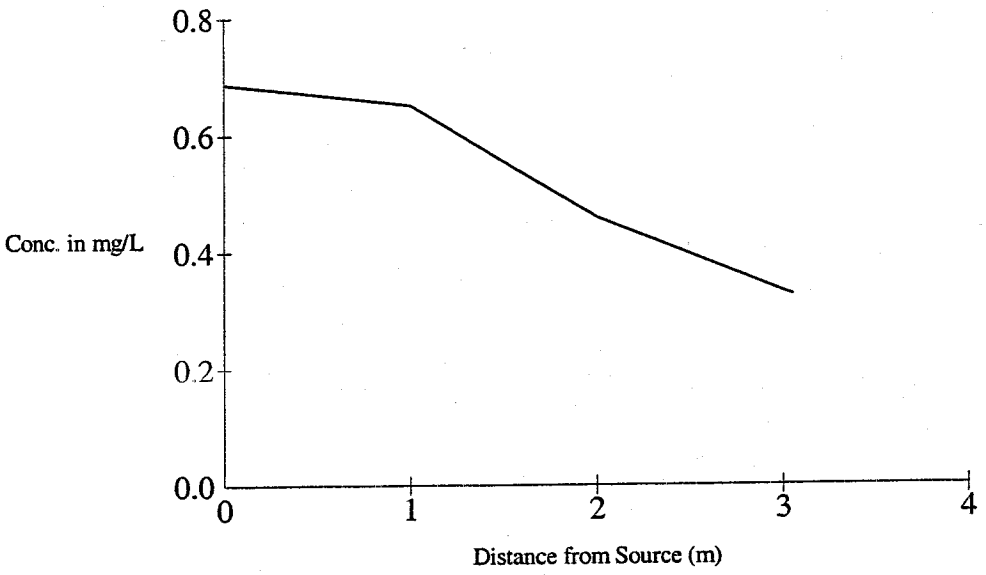
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	1.52E+01
1	6.13E-30
2	1.61E-43
3	5.67E-54
3.05	1.91E-54

Former Willow Street Station

Calculated Ground Water Information

Carbazole



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

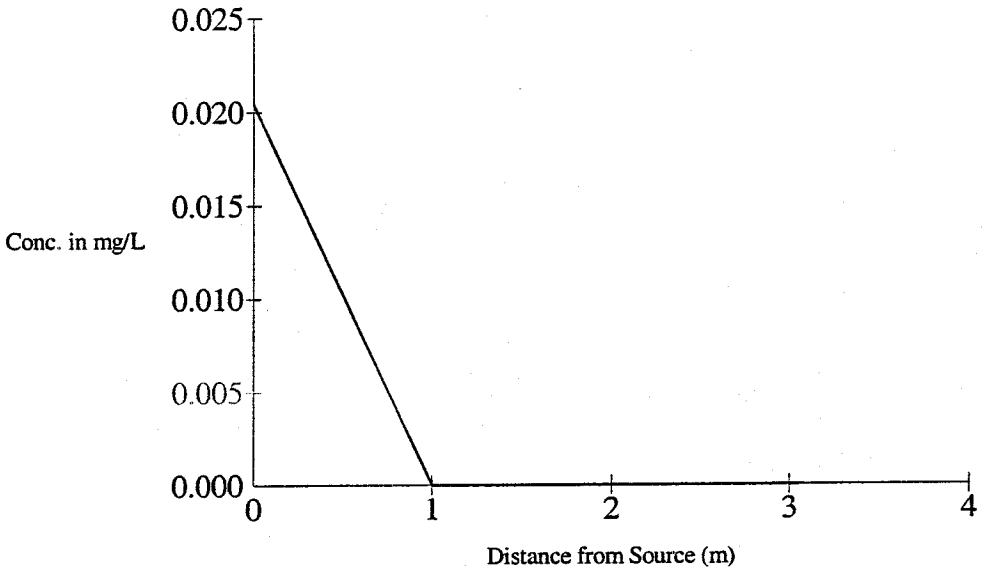
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	6.88E-01
1	6.52E-01
2	4.59E-01
3	3.31E-01
3.05	3.26E-01

Former Willow Street Station

Calculated Ground Water Information

Benzo(a)anthracene



Distance to Meet Ground Water Objectives

Class I	Class II
0.02 m.	0.01 m.

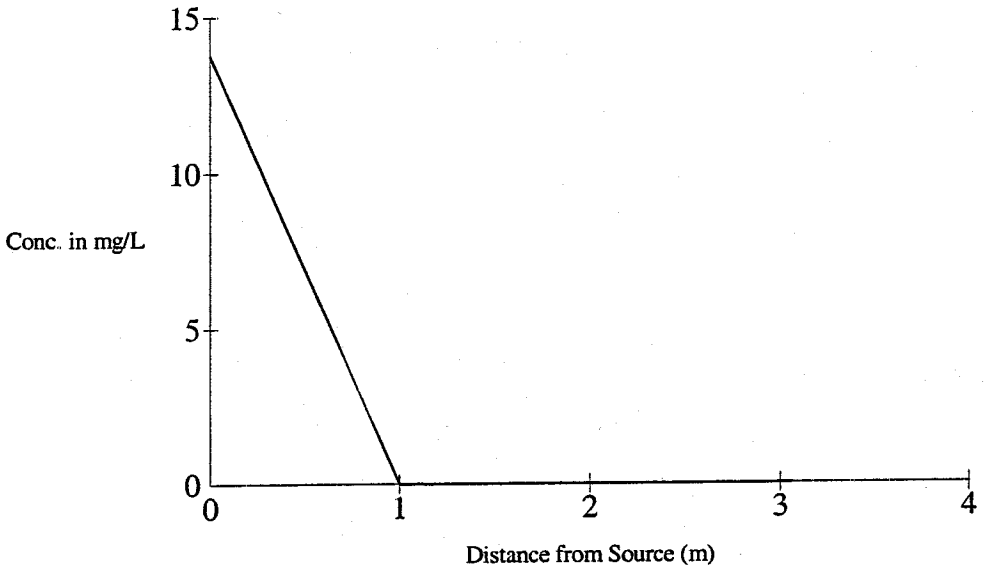
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	2.04E-02
1	8.28E-25
2	4.67E-35
3	5.91E-43
3.05	2.59E-43

Former Willow Street Station

Calculated Ground Water Information

Naphthalene



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

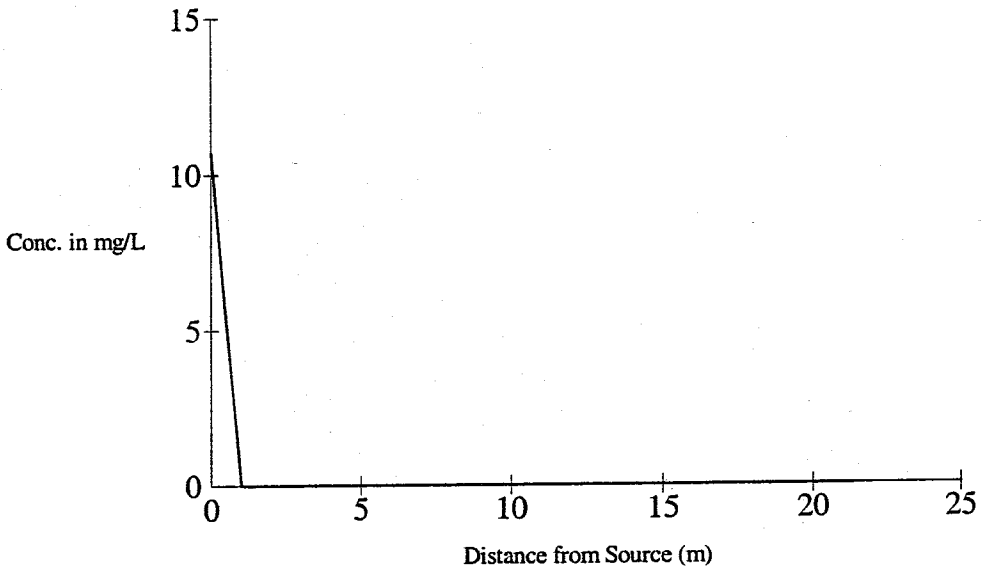
Distance from Source (m)	Calculated Concentration (mg/L)
0	1.38E+01
1	1.01E-53
2	3.70E-77
3	3.60E-95
3.05	5.52E-96

SB52-001

Former Willow Street Station

Calculated Ground Water Information

Benzene



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	1.07E+01
1	4.31E-30
2	1.13E-43
3	3.99E-54
4	6.21E-63
5	1.10E-70
6	1.09E-77
7	3.98E-84
8	4.08E-90
9	9.64E-96
10	4.60E-101
11	3.98E-106
12	5.78E-111
13	1.32E-115

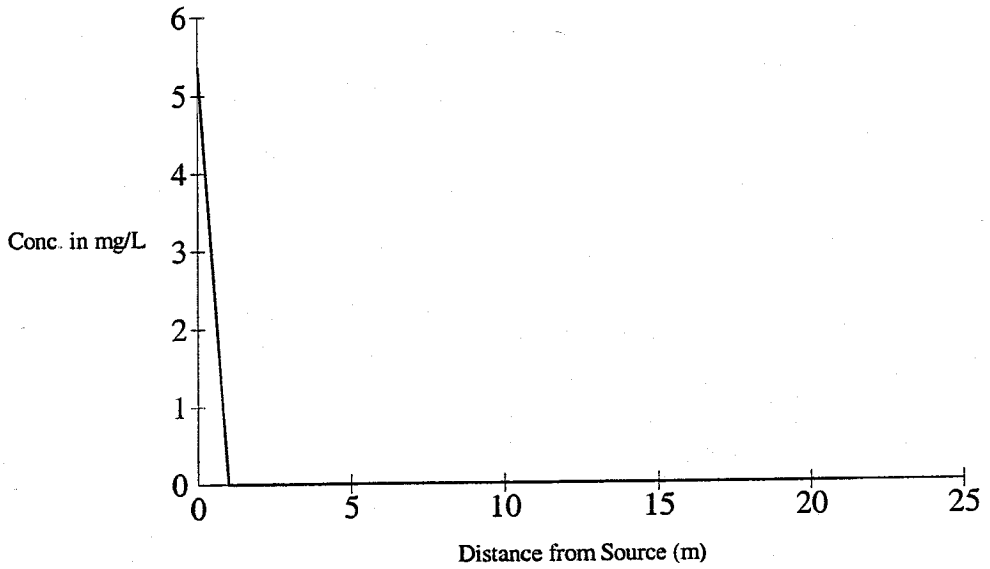
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
14	4.53E-120
15	2.23E-124
16	1.51E-128
17	1.39E-132
18	1.66E-136
19	2.55E-140
20	4.93E-144
21	1.18E-147
21.34	7.22E-149

Former Willow Street Station

Calculated Ground Water Information

Naphthalene



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	5.36E+00
1	3.93E-54
2	1.44E-77
3	1.40E-95
4	9.29E-111
5	4.00E-124
6	3.35E-136
7	2.64E-147
8	1.23E-157
9	2.42E-167
10	1.60E-176
11	2.97E-185
12	1.34E-193
13	1.33E-201

Calculated Ground Water Concentrations

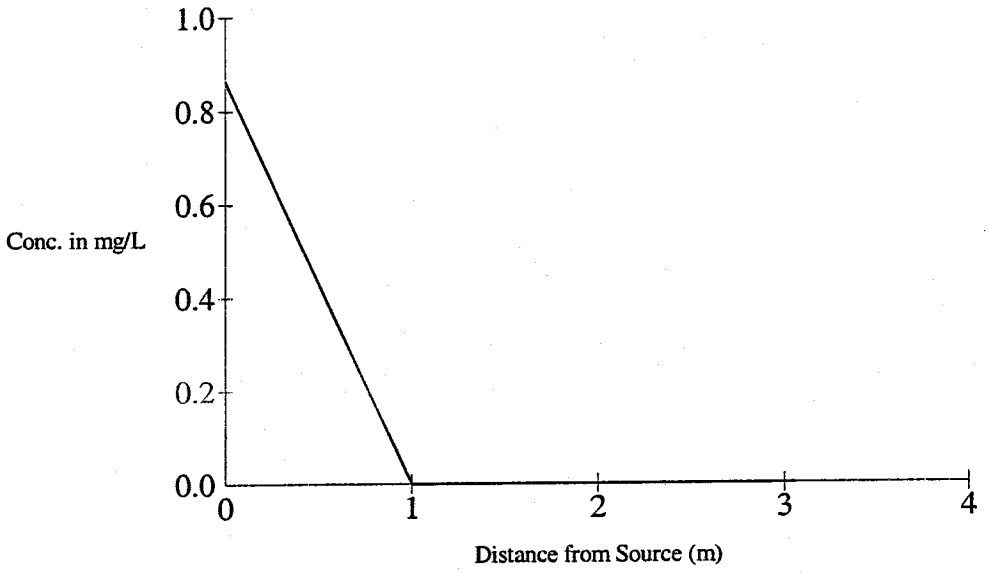
Distance from Source (m)	Calculated Concentration (mg/L)
14	2.66E-209
15	9.86E-217
16	6.41E-224
17	6.95E-231
18	1.20E-237
19	3.17E-244
20	1.25E-250
21	7.05E-257
21.34	5.73E-259

SB53-002

Former Willow Street Station

Calculated Ground Water Information

Benzene



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

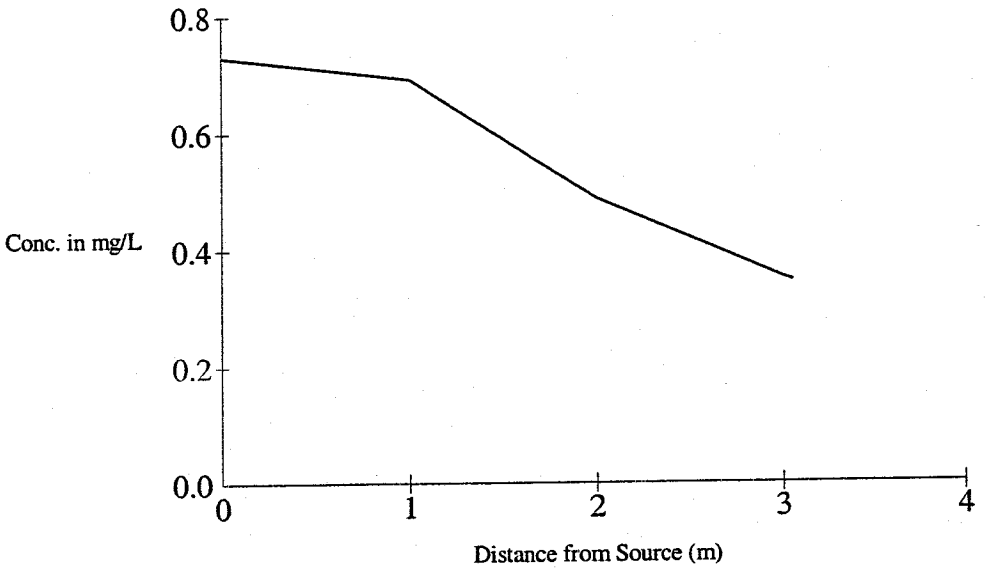
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	8.64E-01
1	3.48E-31
2	9.13E-45
3	3.22E-55
3.05	1.08E-55

Former Willow Street Station

Calculated Ground Water Information

Carbazole



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

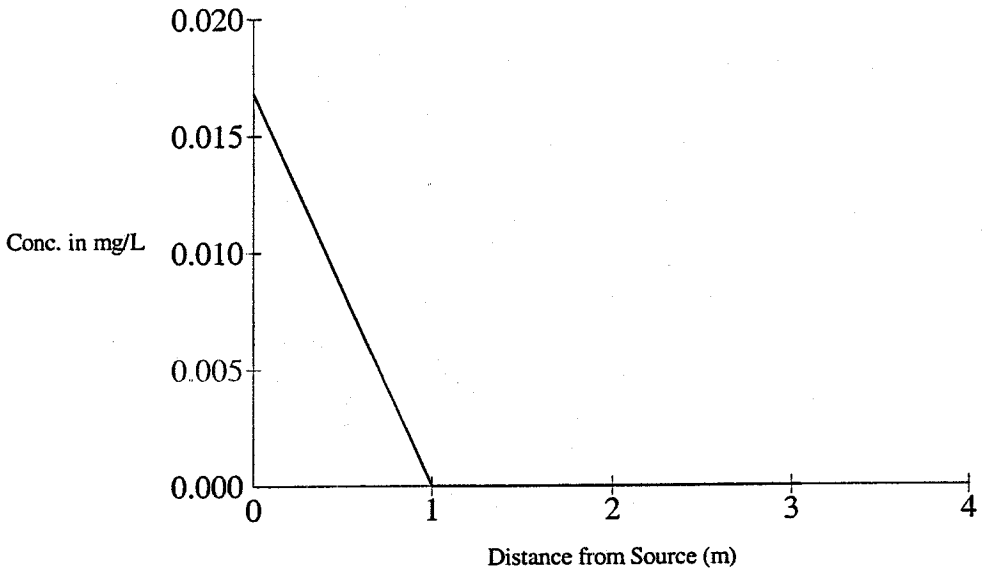
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	7.31E-01
1	6.92E-01
2	4.88E-01
3	3.52E-01
3.05	3.47E-01

Former Willow Street Station

Calculated Ground Water Information

Benzo(a)anthracene



Distance to Meet Ground Water Objectives

Class I	Class II
0.02 m.	0.01 m.

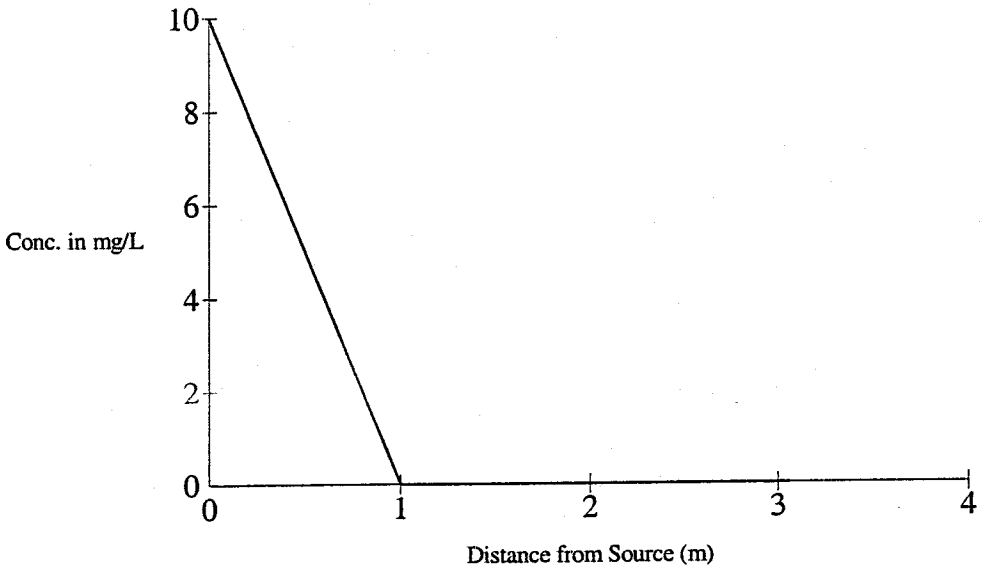
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	1.68E-02
1	6.82E-25
2	3.85E-35
3	4.86E-43
3.05	2.14E-43

Former Willow Street Station

Calculated Ground Water Information

Naphthalene



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

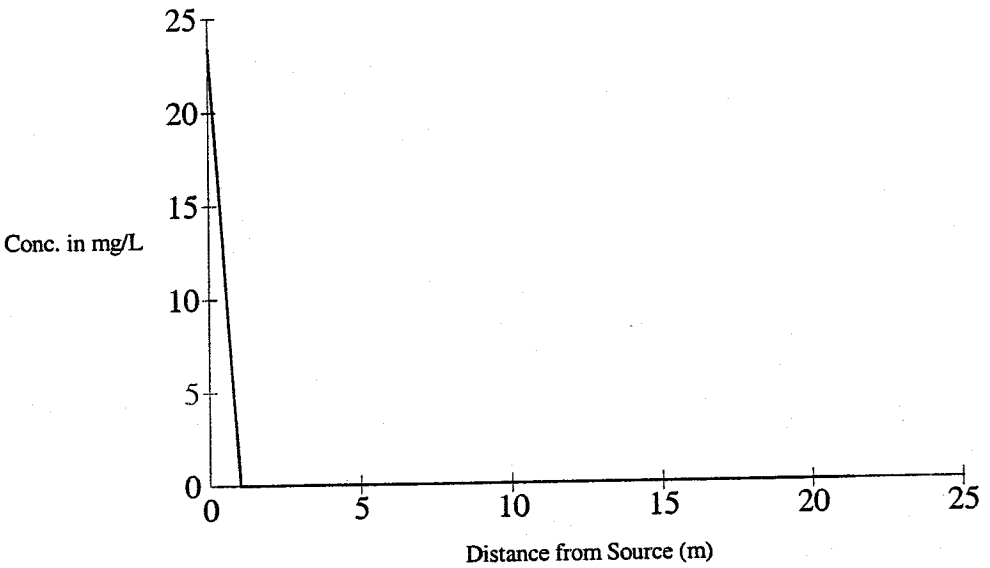
Distance from Source (m)	Calculated Concentration (mg/L)
0	9.99E+00
1	7.32E-54
2	2.69E-77
3	2.61E-95
3.05	4.01E-96

SB54-001

Former Willow Street Station

Calculated Ground Water Information

Benzene



Distance to Meet Ground Water Objectives

Class I	Class II
0.03 m.	0.02 m.

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	2.35E+01
1	9.44E-30
2	2.48E-43
3	8.74E-54
4	1.36E-62
5	2.41E-70
6	2.39E-77
7	8.74E-84
8	8.94E-90
9	2.11E-95
10	1.01E-100
11	8.73E-106
12	1.27E-110
13	2.90E-115

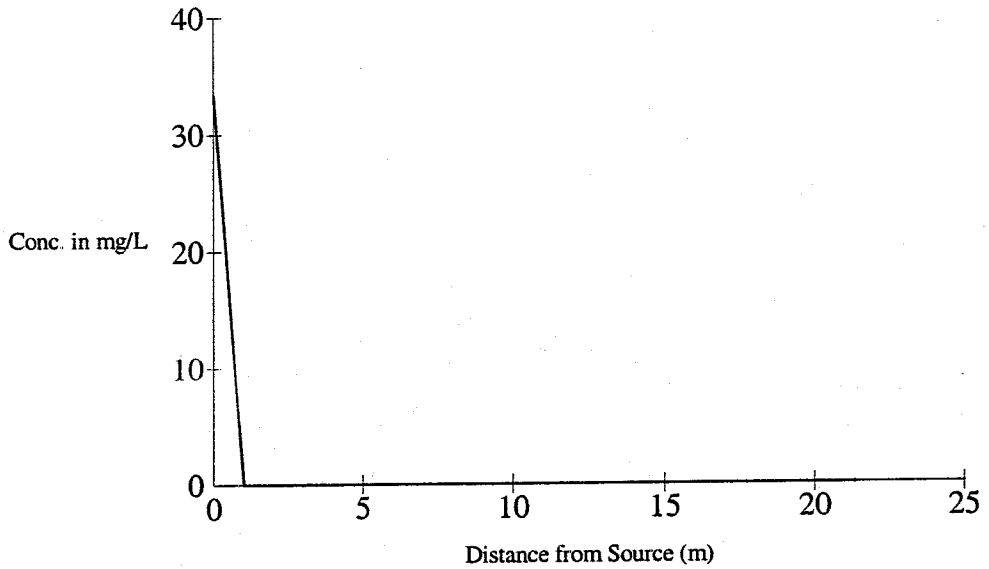
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
14	9.94E-120
15	4.88E-124
16	3.32E-128
17	3.04E-132
18	3.64E-136
19	5.59E-140
20	1.08E-143
21	2.58E-147
21.34	1.58E-148

Former Willow Street Station

Calculated Ground Water Information

Ethylbenzene



Distance to Meet Ground Water Objectives

Class I	Class II
0.00 m.	0.00 m.

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	3.34E+01
1	2.23E-56
2	4.49E-81
3	4.72E-100
4	4.78E-116
5	3.94E-130
6	7.39E-143
7	1.47E-154
8	1.90E-165
9	1.13E-175
10	2.39E-185
11	1.51E-194
12	2.43E-203
13	8.95E-212

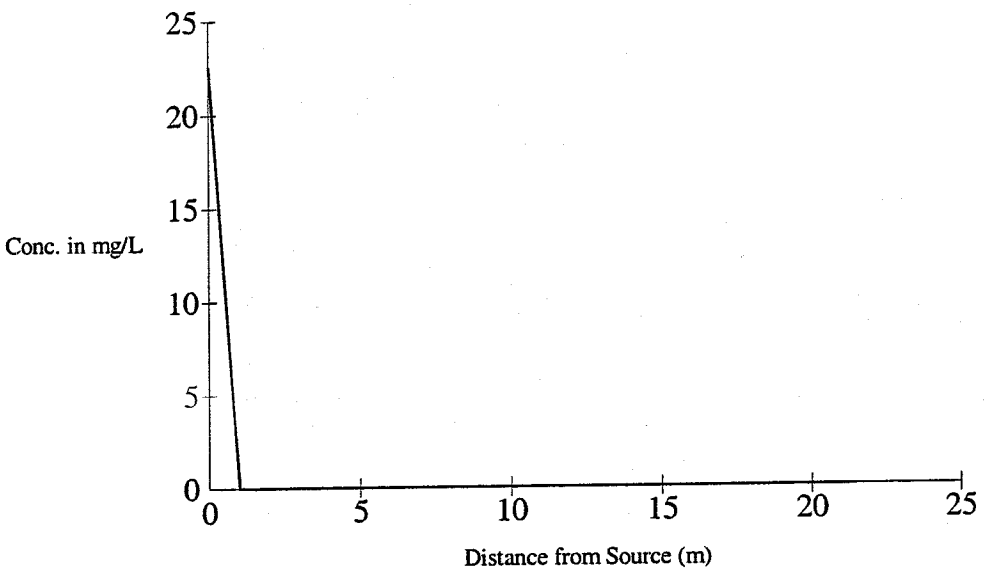
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
14	6.87E-220
15	1.02E-227
16	2.71E-235
17	1.24E-242
18	9.27E-250
19	1.09E-256
20	1.93E-263
21	5.04E-270
21.34	3.16E-272

Former Willow Street Station

Calculated Ground Water Information

Naphthalene



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	2.26E+01
1	1.66E-53
2	6.07E-77
3	5.91E-95
4	3.91E-110
5	1.69E-123
6	1.41E-135
7	1.11E-146
8	5.17E-157
9	1.02E-166
10	6.74E-176
11	1.25E-184
12	5.66E-193
13	5.62E-201

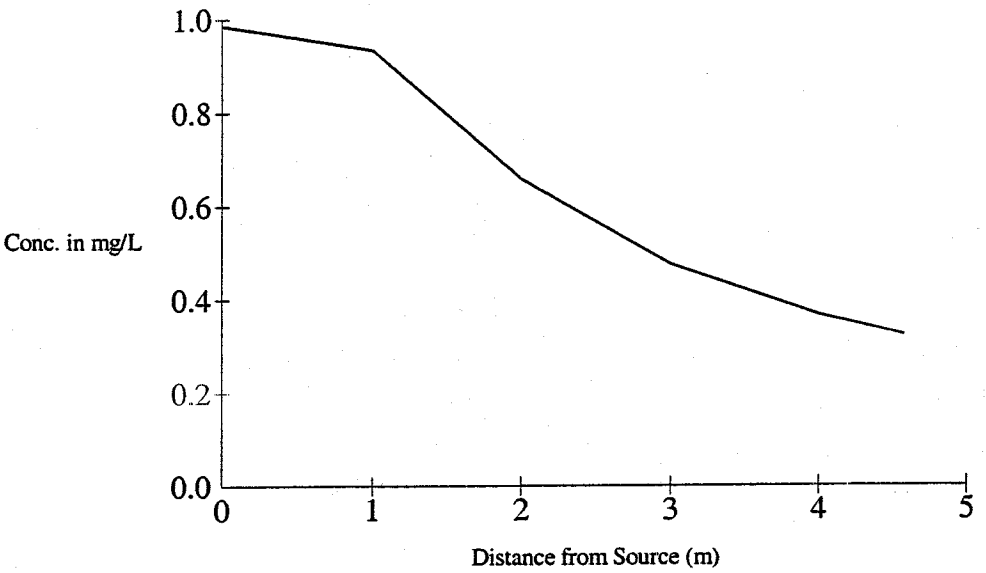
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
14	1.12E-208
15	4.15E-216
16	2.70E-223
17	2.93E-230
18	5.05E-237
19	1.34E-243
20	5.25E-250
21	2.97E-256
21.34	2.41E-258

Former Willow Street Station

Calculated Ground Water Information

Carbazole



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

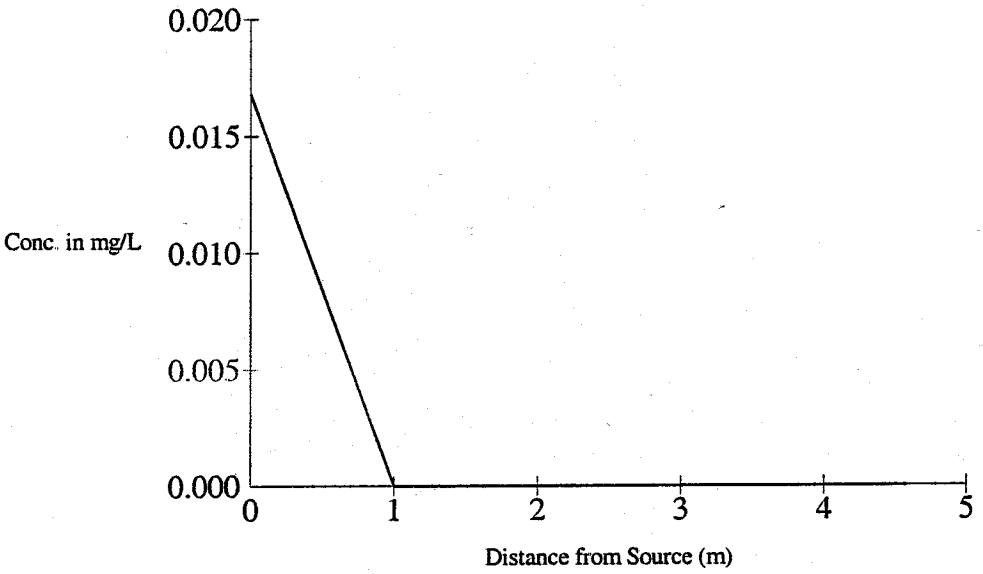
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	9.86E-01
1	9.34E-01
2	6.58E-01
3	4.75E-01
4	3.66E-01
4.572	3.24E-01

Former Willow Street Station

Calculated Ground Water Information

Benzo(a)anthracene



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	1.68E-02
1	6.82E-25
2	3.85E-35
3	4.86E-43
4	1.08E-49
4.572	4.01E-53

APPENDIX G
GROUNDWATER COMPONENT EVALUATION
(SUPPORTING INFORMATION AND CALCULATIONS)
THE FORMER WILLOW STREET STATION
MANUFACTURED GAS PLANT SITE,
1640 NORTH KINGSBURY PORTION

Table 1 Summary of R26 Simulation of Contaminant Migration in Groundwater

Sample Point	Chemical	Concentration in Groundwater in the Source (mg/L)	Distance to the River Bank from the Source Point (ft)	Predicted Concentration at Property Line (mg/L)	Class II Criteria (mg/L)	Meet Class II Criteria (ft)	Distance to Meet Class II Criteria (ft)
MW01-001	Benzene	0.21	20	2.63E-73	0.025	Yes	<1
MW05-001	Benzo(a)anthrancene	0.00076	320	6.06E-225	0.00065	Yes	<1
	Copper	1.2	320	6.83E-03	0.65	Yes	8.6
	Lead	0.96	320	5.47E-03	0.1	Yes	42.5
	Thallium	0.024	320	1.37E-04	0.02	Yes	4.6

DATASHEETS

Datasheet A: Some Inputs of R26 Migration Simulation

Parameter	Units	Value
Thickness of Unsaturated Zone	ft	3.7
Thickness of Saturated Zone	ft	16.3
Soil Type (Saturated Zone)	ft	Silty clay
Total Organic Carbon	%	2.27
Hydraulic Gradient (i)	unitless	0.0126
Hydraulic Conductivity (K)	cm/s	5.37×10^{-9}*

Note:

1) * Site geophysical testing results show that the hydraulic conductivity is 5.37×10^{-9} cm/s. The K value from the field is too small to be accepted by TACO Plus software. Therefore, a conservative value of 5.37×10^{-8} cm/s is used in the calculations.

Datasheet B: Physical Soil Parameters for the RBCA Equations

Area(s)/Location(s) at the site, if applicable:

Predominant Soil Type (e.g., clay, sand, silty clay, etc.):

Surface (top 1 meter) or Subsurface (below 1 meter):

Site-specific values [i.e., field measurements (F =) or calculated values using the SSL equation (Sxx =)] are to be reported if they are used in developing the Tier 2 cleanup objectives. Acceptable procedures for obtaining these values are identified in Appendix C, Table F of TACO.

Parameter	Soil Type	Default Value	Units	Field Measurement or Calculated	Value
ρb (Soil Bulk Density)	Subsurface and/or Subsurface soils	1.5	kg/L	F =	
	Gravel	2.0			
	Sand	1.8			
	Silt	1.6		Surface	1.70
	Clay	1.7		Subsurface	1.70
w (Moisture Content)	Surface and/or Subsurface Soils	0.1	g_{water}/g_{soil} (unitless)		
	Surface Soils	0.1			
	Subsurface Soils	0.2			
foc (Organic Carbon Content)	Surface Soils	0.006	g/g (unitless)	Surface	
	Subsurface Soils	0.002		Subsurface	0.002
θ_I (Total Soil Porosity)	Surface and/or Subsurface Soils	0.43	cm^3/cm^3_{soil} (unitless)		
	Gravel	0.25			
	Sand	0.32			
	Silt	0.40		Surface	0.00
	Clay	0.36		Subsurface	0.36

Datasheet B: Physical Soil Parameters for the RBCA Equation (Continued)

Parameter	Soil Type	Default Value	Units	Field Measurement or Calculated	Value
θ_{as} (Air-filled Soil Porosity)	Surface Soils	0.28	cm^3_{air}/cm^3_{soil} (unitless)		
	Subsurface Soils	0.13			
	Gravel	0.05			
	Sand	0.14			
	Silt	0.24		Surface	0.00
	Clay	0.19		Subsurface	0.19
θ_{ws} (Water-filled Soil Porosity)	Surface Soils	0.15	cm^3_{water}/cm^3_{soil} (unitless)		
	Subsurface Soils	0.30			
	Gravel	0.20			
	Sand	0.18			
	Silt	0.16		Surface	0.00
	Clay	0.17		Subsurface	0.17

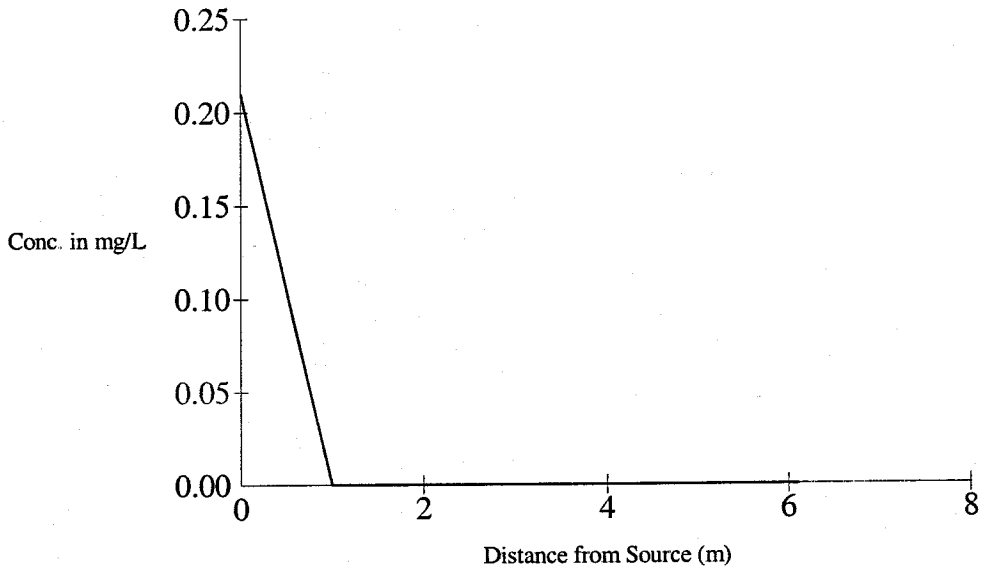
CALCULATIONS FOR CONCENTRATIONS AT THE NORTH BRANCH OF THE CHICAGO RIVER

MW01-001

Peoples Gas - Former Willow Street Station

Calculated Ground Water Information

Benzene



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

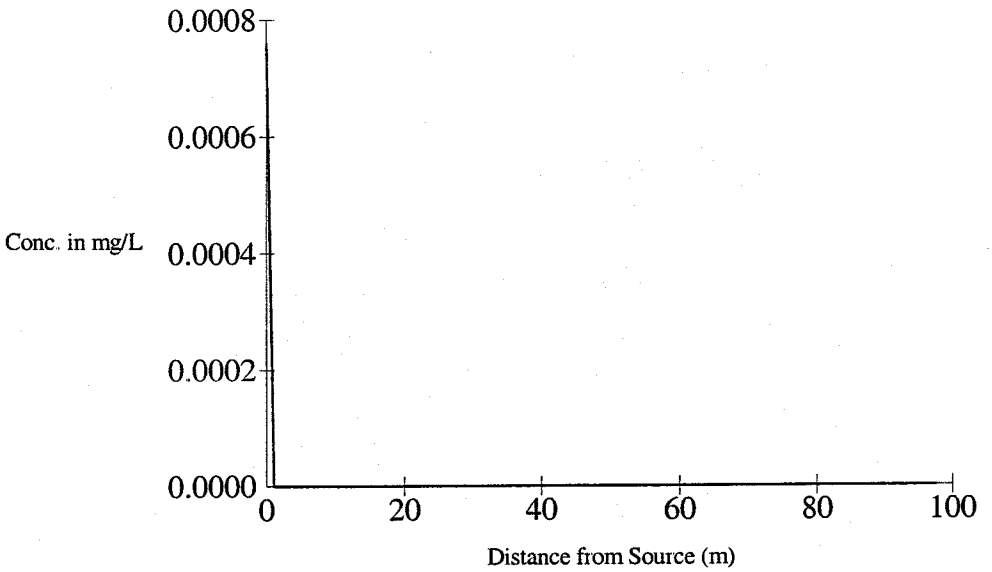
Distance from Source (m)	Calculated Concentration (mg/L)
0	2.10E-01
1	4.54E-29
2	1.63E-41
3	4.26E-51
4	3.60E-59
5	2.82E-66
6	1.07E-72
6.1	2.63E-73

MW05-001

Peoples Gas - Former Willow Street Station

Calculated Ground Water Information

Benzo(a)anthracene



Distance to Meet Ground Water Objectives

Class I	Class II
Met	Met

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	7.60E-04
1	3.47E-24
2	1.41E-33
3	8.04E-41
4	6.36E-47
5	2.72E-52
6	3.85E-57
7	1.35E-61
8	9.61E-66
9	1.22E-69
10	2.53E-73
11	7.92E-77
12	3.54E-80
13	2.17E-83

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
14	1.75E-86
15	1.82E-89
16	2.37E-92
17	3.78E-95
18	7.29E-98
19	1.67E-100
20	4.47E-103
21	1.39E-105
22	4.94E-108
23	2.00E-110
24	9.12E-113
25	4.65E-115
26	2.63E-117
27	1.65E-119
28	1.13E-121
29	8.51E-124
30	6.96E-126
31	6.16E-128
32	5.89E-130
33	6.05E-132
34	6.67E-134
35	7.86E-136
36	9.86E-138
37	1.32E-139
38	1.86E-141
39	2.78E-143
40	4.39E-145
41	7.31E-147
42	1.28E-148
43	2.35E-150
44	4.62E-152
45	9.50E-154
46	2.04E-155
47	4.56E-157
48	1.06E-158
49	2.57E-160
50	6.47E-162
51	1.69E-163
52	4.57E-165
53	1.28E-166
54	3.71E-168
55	1.11E-169
56	3.43E-171
57	1.09E-172
58	3.59E-174
59	1.22E-175
60	4.23E-177
61	1.52E-178
62	5.58E-180
63	2.11E-181
64	8.19E-183
65	3.26E-184
66	1.33E-185
67	5.56E-187
68	2.38E-188
69	1.04E-189
70	4.67E-191
71	2.14E-192
72	1.00E-193
73	4.79E-195
74	2.34E-196

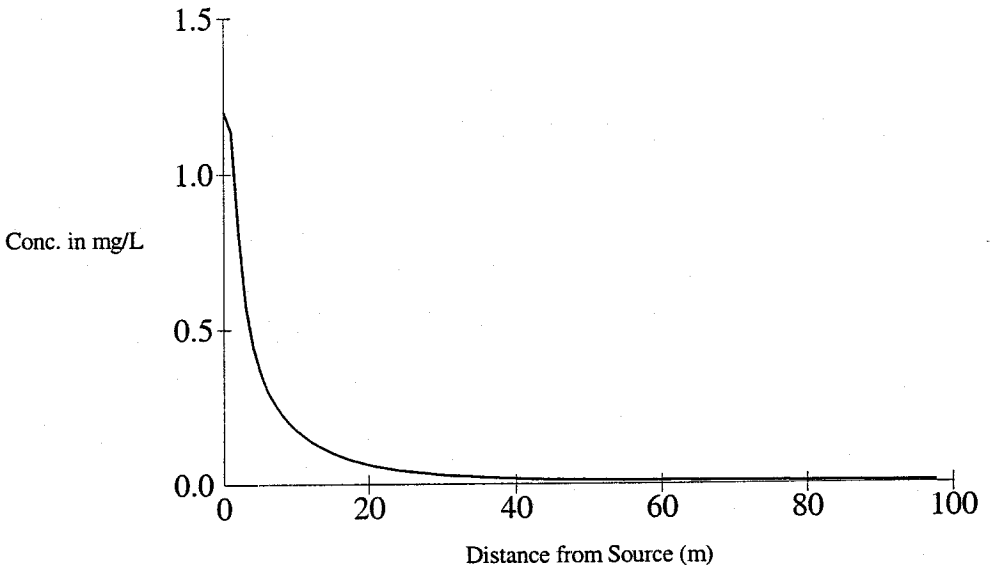
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
75	1.17E-197
76	5.93E-199
77	3.08E-200
78	1.63E-201
79	8.76E-203
80	4.81E-204
81	2.69E-205
82	1.53E-206
83	8.85E-208
84	5.21E-209
85	3.12E-210
86	1.90E-211
87	1.18E-212
88	7.41E-214
89	4.73E-215
90	3.07E-216
91	2.02E-217
92	1.35E-218
93	9.19E-220
94	6.33E-221
95	4.42E-222
96	3.13E-223
97	2.25E-224
97.5	6.06E-225

Peoples Gas - Former Willow Street Station

Calculated Ground Water Information

Copper



Distance to Meet Ground Water Objectives

Class I	Class II
2.61 m.	2.61 m.

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	1.20E+00
1	1.14E+00
2	8.00E-01
3	5.78E-01
4	4.46E-01
5	3.62E-01
6	3.03E-01
7	2.60E-01
8	2.27E-01
9	1.99E-01
10	1.76E-01
11	1.56E-01
12	1.39E-01
13	1.24E-01

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
14	1.12E-01
15	1.01E-01
16	9.12E-02
17	8.28E-02
18	7.54E-02
19	6.89E-02
20	6.32E-02
21	5.81E-02
22	5.36E-02
23	4.96E-02
24	4.59E-02
25	4.27E-02
26	3.98E-02
27	3.71E-02
28	3.47E-02
29	3.26E-02
30	3.06E-02
31	2.88E-02
32	2.71E-02
33	2.56E-02
34	2.42E-02
35	2.29E-02
36	2.17E-02
37	2.06E-02
38	1.96E-02
39	1.86E-02
40	1.77E-02
41	1.69E-02
42	1.62E-02
43	1.55E-02
44	1.51E-02
45	1.48E-02
46	1.45E-02
47	1.42E-02
48	1.39E-02
49	1.36E-02
50	1.33E-02
51	1.31E-02
52	1.28E-02
53	1.26E-02
54	1.23E-02
55	1.21E-02
56	1.19E-02
57	1.17E-02
58	1.15E-02
59	1.13E-02
60	1.11E-02
61	1.09E-02
62	1.07E-02
63	1.06E-02
64	1.04E-02
65	1.02E-02
66	1.01E-02
67	9.94E-03
68	9.80E-03
69	9.65E-03
70	9.52E-03
71	9.38E-03
72	9.25E-03
73	9.13E-03
74	9.00E-03

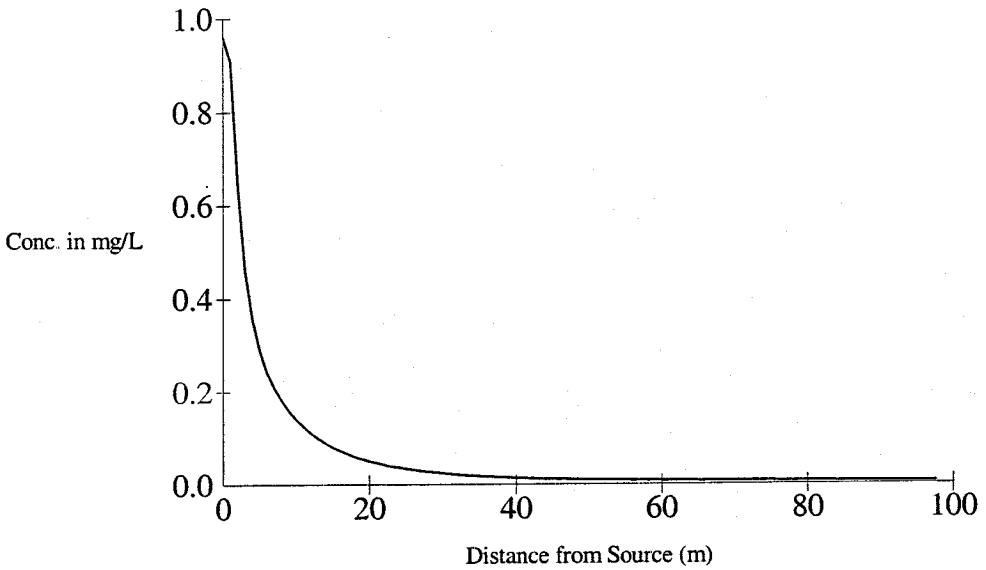
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
75	8.88E-03
76	8.76E-03
77	8.65E-03
78	8.54E-03
79	8.43E-03
80	8.33E-03
81	8.22E-03
82	8.12E-03
83	8.03E-03
84	7.93E-03
85	7.84E-03
86	7.75E-03
87	7.66E-03
88	7.57E-03
89	7.48E-03
90	7.40E-03
91	7.32E-03
92	7.24E-03
93	7.16E-03
94	7.09E-03
95	7.01E-03
96	6.94E-03
97	6.87E-03
97.5	6.83E-03

Peoples Gas - Former Willow Street Station

Calculated Ground Water Information

Lead



Distance to Meet Ground Water Objectives

Class I	Class II
71.05 m.	12.96 m.

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	9.60E-01
1	9.09E-01
2	6.40E-01
3	4.62E-01
4	3.57E-01
5	2.89E-01
6	2.43E-01
7	2.08E-01
8	1.81E-01
9	1.59E-01
10	1.41E-01
11	1.25E-01
12	1.11E-01
13	9.96E-02

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
14	8.94E-02
15	8.06E-02
16	7.29E-02
17	6.62E-02
18	6.03E-02
19	5.51E-02
20	5.06E-02
21	4.65E-02
22	4.29E-02
23	3.96E-02
24	3.68E-02
25	3.42E-02
26	3.18E-02
27	2.97E-02
28	2.78E-02
29	2.60E-02
30	2.45E-02
31	2.30E-02
32	2.17E-02
33	2.05E-02
34	1.93E-02
35	1.83E-02
36	1.74E-02
37	1.65E-02
38	1.57E-02
39	1.49E-02
40	1.42E-02
41	1.35E-02
42	1.29E-02
43	1.24E-02
44	1.21E-02
45	1.18E-02
46	1.16E-02
47	1.13E-02
48	1.11E-02
49	1.09E-02
50	1.07E-02
51	1.04E-02
52	1.02E-02
53	1.01E-02
54	9.87E-03
55	9.69E-03
56	9.52E-03
57	9.35E-03
58	9.19E-03
59	9.03E-03
60	8.88E-03
61	8.74E-03
62	8.59E-03
63	8.46E-03
64	8.33E-03
65	8.20E-03
66	8.07E-03
67	7.95E-03
68	7.84E-03
69	7.72E-03
70	7.61E-03
71	7.51E-03
72	7.40E-03
73	7.30E-03
74	7.20E-03

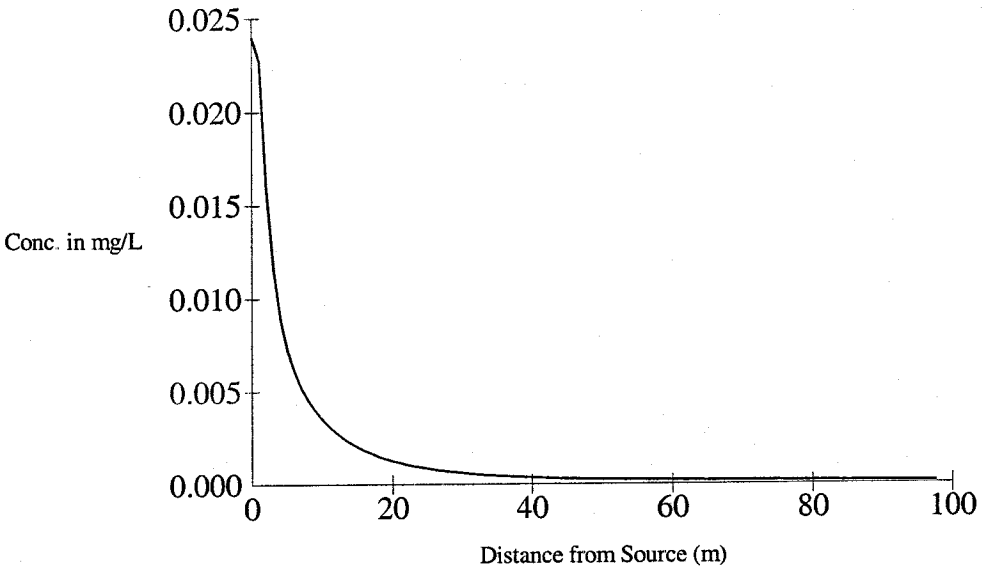
Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
75	7.11E-03
76	7.01E-03
77	6.92E-03
78	6.83E-03
79	6.75E-03
80	6.66E-03
81	6.58E-03
82	6.50E-03
83	6.42E-03
84	6.34E-03
85	6.27E-03
86	6.20E-03
87	6.13E-03
88	6.06E-03
89	5.99E-03
90	5.92E-03
91	5.86E-03
92	5.79E-03
93	5.73E-03
94	5.67E-03
95	5.61E-03
96	5.55E-03
97	5.49E-03
97.5	5.47E-03

Peoples Gas - Former Willow Street Station

Calculated Ground Water Information

Thallium



Distance to Meet Ground Water Objectives

Class I	Class II
15.08 m.	1.40 m.

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
0	2.40E-02
1	2.27E-02
2	1.60E-02
3	1.16E-02
4	8.92E-03
5	7.23E-03
6	6.07E-03
7	5.21E-03
8	4.53E-03
9	3.98E-03
10	3.52E-03
11	3.12E-03
12	2.78E-03
13	2.49E-03

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
14	2.24E-03
15	2.02E-03
16	1.82E-03
17	1.66E-03
18	1.51E-03
19	1.38E-03
20	1.26E-03
21	1.16E-03
22	1.07E-03
23	9.91E-04
24	9.19E-04
25	8.54E-04
26	7.95E-04
27	7.43E-04
28	6.95E-04
29	6.51E-04
30	6.11E-04
31	5.75E-04
32	5.42E-04
33	5.12E-04
34	4.84E-04
35	4.58E-04
36	4.34E-04
37	4.12E-04
38	3.91E-04
39	3.72E-04
40	3.55E-04
41	3.38E-04
42	3.23E-04
43	3.10E-04
44	3.03E-04
45	2.96E-04
46	2.90E-04
47	2.83E-04
48	2.78E-04
49	2.72E-04
50	2.66E-04
51	2.61E-04
52	2.56E-04
53	2.51E-04
54	2.47E-04
55	2.42E-04
56	2.38E-04
57	2.34E-04
58	2.30E-04
59	2.26E-04
60	2.22E-04
61	2.18E-04
62	2.15E-04
63	2.11E-04
64	2.08E-04
65	2.05E-04
66	2.02E-04
67	1.99E-04
68	1.96E-04
69	1.93E-04
70	1.90E-04
71	1.88E-04
72	1.85E-04
73	1.83E-04
74	1.80E-04

Calculated Ground Water Concentrations

Distance from Source (m)	Calculated Concentration (mg/L)
75	1.78E-04
76	1.75E-04
77	1.73E-04
78	1.71E-04
79	1.69E-04
80	1.67E-04
81	1.64E-04
82	1.62E-04
83	1.61E-04
84	1.59E-04
85	1.57E-04
86	1.55E-04
87	1.53E-04
88	1.51E-04
89	1.50E-04
90	1.48E-04
91	1.46E-04
92	1.45E-04
93	1.43E-04
94	1.42E-04
95	1.40E-04
96	1.39E-04
97	1.37E-04
97.5	1.37E-04

APPENDIX H
TIER 3 RISK EVALUATION
THE FORMER WILLOW STREET STATION MANUFACTURED GAS PLANT SITE, 1640 NORTH KINGSBURY PORTION

TIER 3 RISK EVALUATION

for

THE FORMER WILLOW STREET STATION
MANUFACTURED GAS PLANT SITE,
1640 NORTH KINGSBURY STREET
CHICAGO, ILLINOIS

Prepared for

THE PEOPLES GAS
LIGHT and COKE COMPANY

November 2005

PROJECT NO. 32088

Burns & McDonnell Engineering Company, Inc.
1431 Opus Place, Suite 400
Downers Grove, Illinois 60515-1164
630-724-3200

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Figures

1.0 INTRODUCTION

An Illinois Tiered Approach to Corrective Action Objectives (TACO) Tier 3 risk-based evaluation was performed for the Peoples Gas Light and Coke Company (Peoples Gas) on the 1640 North Kingsbury Portion of the Former Willow Street Station Manufactured Gas Plant (MGP) site in Chicago, Illinois, hereinafter referred to as the "Site." The Site is currently owned by GI North Property, LLC and is occupied by General Iron, Inc. for use as a laydown area for unprepared steel.

The Tier 3 evaluation was performed for future resident, utility worker and construction worker receptors at the Site following removal of soil that exceeded the remediation objectives. The risk assessment (RA) excludes the portion of the Site in the area of the 30-foot setback from the bank of the North Branch of the Chicago River. Remedial activities will include removal of all surface soil from ground surface to 3 feet below ground surface (bgs) across the site, along with removal of subsurface soil in impacted areas and source material. This evaluation was developed from subsurface soil data from site investigation soil sampling conducted in February 2002. The evaluation is limited to exposure to soil through the soil ingestion, soil dermal contact, and soil inhalation exposure pathways.

This Tier 3 risk-based evaluation was conducted using the formal risk assessment approach found in the United States Environmental Protection Agency's (USEPA) *Risk Assessment Guidance for Superfund (RAGS), Volume 1, Human Health Evaluation Manual (Part A)* (USEPA 1989). However, the sample data sets used to conduct this Tier 3 evaluation were limited since they exclude soil samples collected in soil to be removed during remediation.

The purpose of this submittal is to obtain Illinois EPA approval of scenarios, human exposure factors (both default values and assumptions), and toxicity values used. These scenarios and RA variables will be used to conduct a formal RA to be included in the remedial action completion report (RACR). The RACR RA will evaluate soil that remains on-site after remediation as represented by site investigation soil samples and confirmation samples collected during the remediation activities. These data sets will be representative of conditions across the entire Site outside of the river setback area; therefore, the RACR RA will fully evaluate risk to resident, utility worker and construction worker receptors.

The exposure point concentrations (EPCs) developed for chemicals of potential concern (COPCs) for the resident receptor developed in this Tier 3 risk evaluation will be used as Tier 3 soil screening values for confirmation sampling to be conducted during remediation.

Because the Tier 3 evaluation was conducted using the USEPA RAGS Part A approach, the following text is a description of all the steps taken to conduct a formal RA using the limited site investigation data sets.

An RA is a multi-step process consisting of the following tasks:

- Data evaluation;
- Exposure assessment;
- Toxicity assessment;
- Risk characterization; and
- Uncertainty analysis.

Data evaluation includes the selection of chemicals of potential concern (COPCs) that will be evaluated in the RA. Factors used to select COPCs include, but are not limited to, data quality, frequency of detection and the presence of COPCs in background soil studies. Exposure assessment involves characterizing the onsite media with respect to COPCs; identifying populations potentially exposed to COPCs; identifying exposure pathways; calculating representative concentrations and human intakes; and estimating the magnitude, frequency and duration of exposure. Toxicity assessment identifies types of adverse health effects associated with chemical exposures, relationships between the magnitude of exposure and adverse effects, and related uncertainties. Risk characterization estimates health risks associated with exposure to COPCs based on toxicity and exposure assessment information. Uncertainty analysis is a qualitative and, where possible, quantitative description of the assumptions and limitations inherent in each step of the RA.

Although these steps are presented sequentially, the RA process is highly iterative. Information developed in each step of the RA is useful in subsequent steps and provides feedback to preceding steps. For example, concentration data from exposure assessment may be used during data evaluation to select COPCs. Toxicity profiles developed in the toxicity assessment may provide important qualitative information for use in risk characterization or uncertainty analysis.

This RA complies with Illinois EPA guidance for risk assessments, the U.S. Environmental Protection Agency (USEPA) RAGS (USEPA 1989), and supplemental USEPA guidance as referenced throughout the text. This RA has seven sections:

- Section 1.0–Introduction.
- Section 2.0–Data Evaluation.
- Section 3.0–Exposure Assessment.
- Section 4.0–Toxicity Assessment.
- Section 5.0–Scenario Evaluation.
- Section 6.0–Risk Assessment Summary.
- Section 7.0–References.

* * * * *

2.0 DATA EVALUATION

Data evaluation is the process of selecting COPCs and developing a set of data used specifically for the RA, based on issues such as data quality, frequency of detection and presence of COPCs in background soil studies. This process includes the following steps:

- Gather data from the study area investigation(s);
- Evaluate analytical methods used;
- Evaluate quality of data with respect to laboratory reporting limits, qualifiers and blanks; and
- Develop a set of data for RA use.

Data evaluation objectives are used to identify a set of chemicals likely to be site-related and to evaluate whether or not reported concentrations are of acceptable quality for use in this quantitative RA. Data evaluated in this RA includes analysis from site investigation soil samples that were collected in February 2002. Soil samples were analyzed for Target Compound List (TCL), volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs) including polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), priority pollutant metals and total cyanide. Analytical results from samples collected by Burns & McDonnell were validated using the USEPA Contract Laboratory Program guidelines for data review (USEPA 1999 and 2004d). Data were determined to be generally acceptable for use in this RA.

Four exposure scenarios were determined as described in Section 3.0 and corresponding data sets were developed for data evaluation. All surface soil from 0 to 3 feet below ground surface (bgs) will be removed from the site during remedial activities and replaced with imported clean fill. Table 1 presents the analytical results for the soil samples collected at depths of 3 to 10 feet bgs across the site, excluding the setback area, that were selected for the post-remediation resident 1 and utility worker scenarios. Table 2 presents the analytical results for the soil samples collected at depths of 3 to vertical extent of COPCs in soil, which is at 17 feet bgs, that were selected for the post-remediation resident 2 and construction worker scenarios. Figures 1 and 2 present the RA soil sample location maps for the two data sets.

The following steps were taken to generate the COPC data sets for the four scenarios:

- No sample results were eliminated based on a comparison to the Illinois TACO Tier 1 screening levels. This allowed for evaluation of similar acting chemicals;
- Analytes that were non-detect in all samples were eliminated from further consideration as shown in Tables 3 and 4;
- Screening for frequency of occurrence was conducted. Compounds and analytes with an occurrence of detection of less than 5% were excluded from the evaluation (USEPA 1989); and
- Inorganic analyte concentrations were compared to metropolitan statistical area (MSA) background concentrations (35 IAC 742, Appendix A, Table G). Barium and zinc were

eliminated from both COPC data sets based on this background comparison. Cadmium was also eliminated from the post-remediation resident 1 and utility worker data set.

Table 3 presents a summary of occurrence, distribution and selection of COPCs for the post-remediation resident 1 and utility worker scenarios. Table 4 presents a summary of occurrence, distribution and selection of COPCs for the post-remediation resident 2 and construction worker scenarios.

After generating each COPC list, compounds and analytes flagged non-detect "U" were assigned a concentration equal to one half of the laboratory reporting limit for further statistical evaluation of data for residential risk. Tables 5 and 6 present the RA data sets for the post-remediation resident 1 and 2 scenarios, respectively. Maximum detected concentrations of COPCs are used for the post-remediation utility worker and for construction worker scenarios. COPCs with maximum detected concentrations for these two scenarios are presented in Tables 11 and 12, respectively.

* * * * *

3.0 EXPOSURE ASSESSMENT

The objective of the exposure assessment is to estimate the type and magnitude of human exposure to COPCs present in the Site soil. This section characterizes local land and water uses and identifies pathways through which COPCs may be transported from the Site. Based on this information, potential receptors and exposure routes are identified and exposure scenarios are developed.

The exposure assessment includes the following steps:

- Characterization of exposure setting;
- Identification of exposure pathway;
- Quantification of exposure; and
- Uncertainty evaluation.

3.1 CHARACTERIZATION OF EXPOSURE SETTING

The first step in the exposure assessment is to characterize the Site with respect to its physical characteristics and to identify the human populations of concern on and near the Site. This step results in a qualitative evaluation of the Site and surrounding populations with respect to those characteristics that influence exposure.

3.1.1 Land Use

The Site is located at the intersection of Willow Street and North Kingsbury Street in Section 32, Township 40 North, Range 14 East in the City of Chicago, Cook County, Illinois. The former Willow Street Station manufactured gas plant was approximately 5.5 acres in size and was located on three parcels of land. One parcel of the former Willow Street Station was located east of Kingsbury Street and the other two parcels were located west of Kingsbury Street adjacent to the North Branch of the Chicago River. The Site is located primarily on the western portion of the former Willow Street Station. The Site occupies approximately 3.4 acres and is bounded to the north and south by industrial/commercial properties (including Demco Metals, Inc. to the north and a storage yard to the south); to the east by the Chicago, Milwaukee & St. Paul Railroad and Kingsbury Street beyond which is a Commonwealth Edison transformer station, a Peoples Gas regulator station and commercial properties; and to the west by the North Branch of the Chicago River. The Site address is 1640 North Kingsbury, Chicago, Illinois. The Site is currently owned by GI North Property, LLC and is occupied by General Iron (GI) for use as a laydown area for unprepared steel. The site is currently zoned industrial/commercial. Future use of the Site and surrounding property is uncertain based on trends of development in the area.

3.1.2 Water Use

The City of Chicago supplies drinking water to the Site and surrounding areas from Lake Michigan, and an ordinance prohibits the installation of groundwater wells for potable water production.

3.2 IDENTIFICATION OF EXPOSURE PATHWAYS

The second step in exposure assessment is to identify potential human exposure pathways. An exposure pathway describes mechanisms by which selected populations may be exposed to COPCs. An exposure pathway analysis links sources, locations and types of environmental releases with population locations and activity patterns to determine significant pathways of human exposure.

For a potential risk to exist, the exposure pathway for a media must be complete. A complete exposure pathway has four elements:

- Source and mechanism of chemical release;
- Retention or transport medium (e.g., air, water and soil);
- Potential human contact point with impacted medium (exposure point); and
- Exposure route (e.g., ingestion, inhalation or dermal contact) at the exposure point.

Potential risk associated with some media is limited or nonexistent because exposure pathways are incomplete. Media are discussed in terms of the exposure potential for various populations.

3.2.1 Source and Mechanism of Chemical Release

The 1640 North Kingsbury Street portion of the Former Willow Street Station manufactured gas plant was used as a storage facility for manufactured gas and natural gas. The facility was active as a gas storage facility from its construction in 1895 until the mid-1900s. COPCs associated with manufactured gas were found as residuals in Site soil during site investigations conducted by Burns & McDonnell in 2002 and 2004.

3.2.2 Transport of Chemicals to Potential Receptors

COPCs may be transported to individuals at an industrial property from soils by direct skin contact, soil ingestion, inhalation of fugitive dust and inhalation of chemical vapors released from the soil.

Current and future land use of the Site limit potential receptors to future residents, utility workers and construction workers. Trespassers are excluded because the Site is enclosed with a fence.

Excavation during possible future development within the Site could cause subsurface soil to be redistributed to the surface. Therefore, for the post-remediation resident 1 and 2 scenarios, possible contact with soil currently located from the surface to 10 feet bgs and from surface to the vertical extent of COPCs in the soil (17 feet bgs) was considered, respectively. Utility workers were assumed to have potential exposure to soil to a depth of 10 feet bgs during utility repair or installation excavation. Construction workers were assumed to have potential exposure to soil to a depth of the vertical extent of COPCs during construction excavation.

3.2.3 Exposure Scenarios

This Tier 3 RA evaluates the resident, utility worker and construction worker receptors. The following four scenarios were developed:

- Post-Remediation Resident 1 (evaluates COPCs in soil from 3 feet to 10 feet bgs)
  - Incidental ingestion of soil.
  - Dermal contact with soil.
  - Inhalation of fugitive dust from soil.
  - Inhalation of chemical vapors released from soil.
- Post-Remediation Resident 2 (evaluates COPCs in soil from 3 feet to extent of COPCs)
  - Incidental ingestion of soil.
  - Dermal contact with soil.
  - Inhalation of fugitive dust from soil.
  - Inhalation of chemical vapors released from soil.
- Post-Remediation Utility Worker (evaluates COPCs in soil from 3 feet to 10 feet bgs)
  - Incidental ingestion of soil.
  - Dermal contact with soil.
  - Inhalation of fugitive dust from soil.
  - Inhalation of chemical vapors released from subsurface soil during repair or installation of subsurface utility lines.
- Post-Remediation Construction Worker (evaluates COPCs in soil from 3 feet to extent of COPCs)
  - Incidental ingestion of soil.
  - Dermal contact with soil.
  - Inhalation of fugitive dust from soil.
  - Inhalation of chemical vapors released from subsurface soil during construction activities.

3.3 QUANTIFICATION OF EXPOSURE

The third step in exposure assessment is to quantify the magnitude, frequency and duration of exposure for populations and exposure pathways. This step is often conducted in two stages: exposure concentrations are estimated; then, pathway-specific intakes are quantified. This section discusses only exposure concentrations. Section 5.0 addresses pathway-specific intakes.

3.3.1 Chemical Concentrations in Soil

3.3.1.1 Resident Scenarios

For the resident scenarios, either a 95% upper confidence limit (95 UCL) estimate of the mean, or the maximum concentration, whichever is least, was used as the reasonable maximum exposure (RME) concentration (USEPA 1992). The RME is intended to evaluate risk for the highest exposure that could reasonably be expected to occur at a site over time. The 95 UCL provides a conservative estimate of the mean concentration. The 95 UCL calculations vary according to the distribution of the sample data set. All statistical calculations were performed using ProUCL software, version 3.0 (USEPA 2004a). Results

from the W-Test (a statistical distribution test developed by Shapiro and Wilk [1965] for less than 50 samples) indicate that the data sets for all COPCs for the post-remediation resident 1 and resident 2 were normal, lognormal, gamma or non-parametric as shown in Tables 7 and 8, respectively.

The 95 UCL of each compound in the sample data set was calculated by ProUCL using one of several different methods. The best method of calculation for each data set was recommended by the program, and that recommendation is included in Tables 7 and 8. The detailed methodology of each method is explained in the ProUCL User's Guide (USEPA 2004a).

Because of the uncertainty associated with any estimate of exposure concentration, either the 95 UCL or the maximum concentration, whichever is least, was used for both the RME and central tendency (CT) concentrations (USEPA 1993). The CT is intended to evaluate risk for an average exposure as a comparison to the RME. Since the same exposure concentration was used for both the RME and the CT, differences between the RME and CT evaluations lie in the pathway-specific intakes discussed in Section 5.0. Tables 9 and 10 present the RME and CT exposure point concentrations (EPCs) for the post-remediation resident 1 and 2 scenarios, respectively.

The 95 UCL for each inorganic analyte was compared to the TACO MSA background concentration. Any inorganic analyte with a 95 UCL concentration less than the MSA background concentration may be eliminated from further consideration in the RA. This screening resulted in the elimination of arsenic and lead from the post-remediation resident 1 scenario and arsenic, cadmium and lead from the post-remediation resident 2 scenario.

3.3.1.2 Utility Worker and Construction Worker Scenarios

The post-remediation utility worker and construction worker are potentially exposed to soil on the Site at locations where the maximum detected concentrations of COPCs occur. In accordance with TACO guidelines (35 IAC 742.225), no averaging of soil sample results was conducted for COPCs for the post-remediation utility worker and construction worker scenarios. The maximum detected concentration of each COPC was used as the EPC in calculations used to characterize risk for both RME and CT exposures. Tables 11 and 12 present the RME and CT EPCs for the post-remediation utility worker and construction worker scenarios, respectively.

3.3.2 Modeled Chemical Concentrations in Air

This section presents the equations and assumptions used in the vapor transport modeling from soil to air used in the post-remediation resident 1, resident 2, utility worker and construction worker scenarios. The equations for vapor transport modeling presented in the USEPA *Soil Screening Guidance: User's Guide* (USEPA 1996) and USEPA *Supplemental Guidance for Developing Soil Screening Levels for Superfund* Sites (USEPA 2002a) were used to derive soil-to-air volatilization factors (VFs) for the various scenarios. The equations and variables used to calculate vapor emission rates and soil-to-air VFs are discussed in

the following subsections. Tables 13 and 14 present the calculations and resultant values for vapor emission rates and soil-to-air VFs in outdoor air for the post-remediation resident 1 and 2 scenarios. Tables 15 and 16 present the calculations and resultant values for vapor emission rates and soil-to-air VFs in outdoor air for the post-remediation utility worker and construction worker scenarios.

3.3.2.1 Vapor Emissions Rate to the Surface

The vapor emissions rate to the surface is provided by the apparent diffusivity D_a. The equation used to calculate this value uses soil physical properties such as dry bulk density, soil particle density, soil porosity and organic carbon content, as well as chemical-specific parameters such as organic partition coefficient, standard diffusivities in air and water and Henry's Law constant. In this equation, air-filled soil porosity (as determined by water-filled soil porosity or soil moisture content) is the most significant soil parameter affecting the final steady-state flux of volatile contaminants from soil (USEPA 1980). Soil physical properties used in the calculations for resident 1 and resident 2 were default values from Table B, Appendix C of TACO (35 IAC Part 742) or derivations from these values. Soil physical properties used in the calculations for utility worker and construction worker were also TACO default values or derivatives. However, surface values were used because the VF model for construction worker from the *Supplemental Guidance for Developing Soil Screening Levels for Superfund* Sites (USEPA 2002) assumes that all soil impact is located at the surface of the soil.

3.3.2.2 Vapor Concentration in Outdoor Air

The resultant vapor emission rates were entered into a soil-to-air VF formula subsequently used to estimate vapor concentrations in ambient air from soil COPCs. Per the USEPA *Soil Screening Guidance: Users Guide* (1996), a simplified VF equation developed by Jury et al. (1984) for evaluation of resident receptors replaces the Hwang and Falco (1986) model used as the basis for RAGS HHEM, Part B. The VF defines the relationship between the concentration of the contaminant in soil and the flux of the volatized contaminant to air. An infinite contaminant source is assumed, as is vapor phase diffusion as the only transport mechanism. In addition to the emissions rate the VF also incorporates a dispersion model (reduced to the term Q/C) that simulates the dispersion of contaminants in ambient air. This Q/C term replaces the box model for dispersion in RAGS HHEM, Part B. A site-specific Q/C (and hence a site-specific VF) is developed by placing the Site into a climatic zone and using an estimate of the Site's size. The variables used to calculate Q/C for this RA were those for Chicago, Illinois in Zone 7 presented in the USEPA *Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites* (USEPA 2002).

The calculation of the VF for utility worker and construction worker was performed using the USEPA (2002) construction worker equations. These equations are similar to the model equations for resident; however, regional climatic differences are not included in the Q/C equation. The constants used in the Q/C for construction worker were developed by USEPA using the USEPA's SCREEN 3 dispersion model for a hypothetical site under a wide range meteorological conditions.

3.4 UNCERTAINTIES ASSOCIATED WITH EXPOSURE ASSESSMENT

Estimated exposure levels to COPCs were generated with a number of uncertainties. Generally, these uncertainties are inherent in RAs, particularly because of the type and amount of data that can be collected in the short duration of sampling episodes. A summary of the most important uncertainties follows.

- Although current exposure levels are based on measured concentrations in the media of concern, these values are uncertain because of analytical variation. To account for this, the 95 UCL was used in dose calculations for the resident scenario.
- The use of maximum detected COPC concentrations for EPCs may overestimate the actual dose to which a utility worker and construction worker are exposed.
- COPC concentrations are assumed to remain static from the time of sampling, with no adjustment for dilution, biodegradation or volatilization. This assumption may result in an overestimation of the actual dose.
- Compounds flagged non-detect "U" were assigned a concentration equal to one-half of the laboratory reporting limit for 95 UCL calculations. This practice may result in an overestimation or underestimation of the actual concentration used in evaluation of the resident scenarios.
- During site investigation sampling, subsurface soil samples were typically selected for analysis where the highest level of COPCs were expected, based on visual observations and field screening measurements. This sampling practice may result in an overestimation of the actual exposure dose.
- The emission rate calculation for soil vapors does not take biodegradation, removal by leaching or adsorption of vapor to soil into account, resulting in possible overestimation of the exposure dose.
- The utility worker and construction worker VF calculations assume that all COPCs are present at maximum concentrations in surface soil. This may result in an overestimation of exposure to volatile chemical vapors.

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4.0 TOXICITY ASSESSMENT

Toxicity assessment identifies potential adverse health effects associated with chemical exposures (hazard identification) and estimates the relationship between the magnitude of exposure and likelihood of adverse effects (dose-response evaluation). Dose-response relationships are derived using human, animal and/or supporting data. These relationships are then used to determine a toxicity value that can be used to estimate risk. The toxicity assessment is conducted separately for the noncarcinogenic and carcinogenic effects of COPCs because differences exist between the noncarcinogenic and carcinogenic dose-response variables. The magnitude of potential noncarcinogenic effects is evaluated using either an oral or dermal reference dose (RfD) or an inhalation reference concentration (RfC) value. Potential carcinogenic effects are quantified using a slope factor (SF) or an inhalation unit risk (UR). These toxicity values are compiled by the USEPA for individual COPCs for which dose-response data are available.

Illinois EPA recommends that the following hierarchy be used to identify toxicity values:

1. Integrated Risk Information System (IRIS);
2. USEPA Provisional Peer Reviewed Toxicity Values for Superfund (PPRTVs);
3. USEPA/National Center for Environmental Assessment (NCEA) provisional value; and
4. Health Effects Assessment Summary Tables (HEAST) values.

IRIS is available online at the USEPA web site (USEPA 2005). A formal process for selection and review of chemical data results in periodic updates to the system. Use of the PPRTV web site is restricted to USEPA users. USEPA/NCEA values are published by USEPA Region 3 in their Risk-Based Concentration (RBC) table, which is updated semi-annually with values that have been made available to them (USEPA 2004b). The HEAST tables were last published in 1997 and are not currently being updated (USEPA 1997b).

4.1 TOXICITY VALUES FOR NONCARCINOGENIC EFFECTS

Examples of noncarcinogenic health effects from exposure to toxic chemicals include liver and kidney damage, decreased fertility, birth defects and damage to the central nervous system. The human body has detoxification mechanisms that can convert toxic chemicals into nontoxic products and excrete them; however, these mechanisms have a limited ability to process toxins. An underlying assumption in risk calculations is that a threshold exists for initiation of noncarcinogenic effects. For calculating noncarcinogenic risk, the RfD or RfC is used to estimate this threshold. The USEPA defines the chronic RfD as “an estimate (with uncertainty spanning perhaps an order of magnitude or greater) of a daily exposure level for the human population, including sensitive subpopulations, that is likely to be without an appreciable risk of deleterious effects during a lifetime” (USEPA 1989). Similarly a chronic RfC is defined as “an estimate (with uncertainty spanning perhaps an order of magnitude) of a continuous

inhalation exposure to the human population (including sensitive subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetime" (USEPA 2005).

A chemical's RfD is determined based on the relationship between the dose of the noncarcinogen and the frequency of adverse health effects observed in experimental animals or humans (USEPA 1989). RfDs are obtained by dividing the level at which no adverse effect is observed by uncertainty factors to account for study-specific uncertainties, such as sensitive subpopulations, extrapolation of animal data to humans, and use of short-term exposure data. A chemical's inhalation RfC is analogous to the oral RfD and is also based on the assumption that thresholds exist for certain toxic effects. The inhalation RfC considers toxic effects for both point-of-entry and effects peripheral to the respiratory system.

Subchronic RfDs and RfCs are used to characterize potential noncarcinogenic effects for short-term exposure. Utility workers and construction workers are exposed for short periods of time, usually of a year or less; therefore, subchronic RfDs and RfCs were used to calculate risks, if they were available. When RfDs or RfCs were not available for a subchronic exposure period, the chronic RfD or RfC was used for risk calculations. Residents are assumed to be exposed for periods of nine years or more; therefore, chronic RfDs or RfCs were used to calculate risks, if they were available.

RfDs may vary with exposure route; therefore, they are developed for specific exposure routes (ingestion and, in some cases, inhalation). RfDs are expressed in units of milligram (mg) of chemical exposure per kilogram (kg) body weight of the exposed individual per day (mg/kg-day). Subchronic or chronic oral RfDs for the ingestion exposure route are available for most volatile organic and inorganic COPCs as well as some semivolatile organic COPCs. RfDs for dermal absorption are estimated using the oral RfD. To obtain the dermal RfD, the oral RfD is multiplied by a chemical-specific gastrointestinal absorption efficiency when the oral RfD is derived from an administered dose rather than an absorbed dose. Per RAGS Part E, *Supplemental Guidance for Dermal Risk Assessment* (USEPA 2004c), if a chemical-specific gastrointestinal absorption efficiency is not available for an inorganic COPC, a gastrointestinal absorption efficiency of 100% is assumed. RAGS Part E also recommends a gastrointestinal absorption efficiency of 100% for PAHs. The RAGS Part E recommendation for VOCs is to evaluate them through inhalation exposure routes rather than a dermal exposure route, since they will volatilize from soil on skin before they can be absorbed. Therefore, acetone, benzene, 2-butanone, ethylbenzene and o-xylene are excluded from the dermal risk assessment. As a conservative measure, naphthalene is evaluated in both dermal and inhalation exposure routes.

Non-carcinogenic toxicity values for the inhalation exposure pathway are calculated as RfCs in milligrams per cubic meter (mg/m^3). Inhalation RfCs are available for benzene, 2-butanone, ethylbenzene, o-xylene, naphthalene, beryllium, chromium and mercury. RfCs with systemic effects are converted to inhalation RfDs by assuming an inhalation rate (IR) of 20 m^3/day and a body weight (BW) of 70 kg, where: RfD (mg/kg-day) = RfC (mg/m^3) x (20 m^3/day ÷ 70 kg). Benzene, 2-butanone, ethylbenzene, o-xylene and mercury have systemic effects and the RfCs were converted to RfDs. The

toxic effects of naphthalene, beryllium and chromium, are point-of-entry effects; therefore, the RfCs for these three COPCs were not converted to RfDs.

Systemic effects for benzene, 2-butanone, ethylbenzene, o-xylene and mercury and are supported by the following studies used to develop RfC values. The benzene RfC is based on critical effects from studies of decreased lymphocyte count in humans (Rothman et al., 1996). The 2-butanone RfC is based on developmental effects including extra ribs and misaligned sternebrae in fetuses, and decreased fetal weight (Deacon et al. 1981; Mast et al. 1989; Schwetz et al. 1991.) The ethylbenzene RfC is based on critical effects from studies of developmental effects (Andrew et al. 1981; Hardin et al. 1981). The o-xylene RfC is based on critical effects from studies of impaired motor coordination (Korsak et al., 1994). The mercury RfC is based on critical effects from studies of hand tremor, increases in memory disturbance and autonomic dysfunction (Fawer et al. 1983; Piikivi et al. 1989; Ngim et al. 1992; Liang et al. 1993). All toxicity studies are cited from IRIS (USEPA 2005). The RfCs for these compounds were converted to RfDs based on their systemic effects.

For COPCs where the RfD or RfC is not available, the corresponding exposure route was not evaluated for noncarcinogenic effects. Tables 17a and 18a present oral and dermal RfDs used for the post-remediation resident scenarios and the utility worker and construction worker scenarios, respectively. Tables 17b and 18b present inhalation RfDs and RfCs used for the post-remediation resident scenarios and utility worker and construction worker scenarios, respectively.

4.2 TOXICITY VALUES FOR CARCINOGENIC EFFECTS

SFs and URs are toxicity values used to estimate the excess probability of cancer in an exposed population. A SF represents the probability of a response per unit intake of a chemical over a lifetime and is given in risk per mg/kg/day. SFs are typically estimated by assuming a linear multi-stage model of the relationship between administered dose and observed cancer rate. This non-threshold theory assumes that even a small number of molecules (possibly even a single molecule) of a carcinogen may cause changes in a single cell that may lead to the onset of cancer. Though SFs are applied to long-term, low dose exposure scenarios, they are usually estimated from high dose, short-term animal studies. The SF generally represents the upper limit of a chemical's carcinogenic potency. The UR is the carcinogenic toxicity value used for the inhalation exposure route, and is the upper-bound excess lifetime cancer risk estimated to result from continuous exposure to a chemical at a concentration of microgram per cubic meter ($\mu g/m^3$) in air.

The USEPA classifies each chemical according to the weight-of-evidence system, which is based on the extent to which the chemical has been shown to be a carcinogen in humans, experimental animals or both. This system classifies potential carcinogens as Group A, B1, B2, C, D or E. Group A chemicals are classified as human carcinogens with sufficient evidence from epidemiologic studies to support a causal association between human exposure and cancer. Group B1 and B2 chemicals are classified as probable

human carcinogens. Group B1 applies to chemicals with limited evidence of carcinogenicity in humans from epidemiologic studies, and Group B2 applies to chemicals with inadequate evidence of carcinogenicity in humans, but sufficient evidence of carcinogenicity in animals. Group C applies to chemicals with limited evidence of carcinogenicity in animals. Group D is not classified because of inadequate evidence of carcinogenicity in animals and Group E applies to chemicals that show no evidence of carcinogenicity in humans, where at least two adequate animal tests or both epidemiologic and animal studies have been conducted.

Benzene and arsenic are the only compounds in this RA classified as Group A, human carcinogens with sufficient evidence from epidemiologic studies to support a causal association between human exposure and cancer for both ingestion and inhalation exposure routes. Hexavalent chromium is classified as Group A for the inhalation exposure route and Group D for the ingestion exposure route. The carcinogenic PAH compounds are classified as Group B2, probable human carcinogens with sufficient evidence of carcinogenicity in animals but inadequate evidence in humans. Naphthalene is classified as Group C, a possible human carcinogen.

Chemical-specific carcinogenic potency depends on its exposure pathway (ingestion, dermal absorption or inhalation Oral SFs are available for benzene, bis(2-ethylhexyl)phthalate, carbazole, carcinogenic PAHs and arsenic. In accordance with RAGS Part E, a gastrointestinal absorption efficiency of 100% is assumed for carcinogenic PAHs. Benzene will volatilize from skin before it is absorbed; therefore, benzene is evaluated in the inhalation exposure routes rather than the dermal exposure route (USEPA 2004c).

Carcinogenic effects for the inhalation exposure route are expressed in terms of UR in air. For systemic carcinogens, URs are converted to inhalation SFs by assuming an IR of 20 m^3/day and a BW of 70 kg, where: SF $(mg/kg\text{-}day)^{-1}$ = UR $(\mu g/m^3)^{-1}$ x (70 kg ÷ 20 m^3/day x 1000 μg/mg). UR values should not be converted to SFs when the carcinogenic effect is at the point of entry only. Inhalation UR values are available for benzene, arsenic, beryllium, cadmium, and hexavalent chromium from IRIS. A USEPA/NCEA provisional UR value is available for benzo(a)pyrene, and URs for PAHs were derived using USEPA benzo(a)pyrene equivalency factors (USEPA 2004b). The UR for benzene was converted to the SF. The URs for all other carcinogenic COPCs, which are point-of-entry carcinogens, were used directly to calculate carcinogenic risk.

For COPCs that do not have a SF or inhalation UR, risk for the corresponding exposure route is not evaluated. Tables 17a and 18a present oral and dermal SFs used for the post-remediation resident scenarios and utility worker and construction worker scenarios, respectively. Tables 17b and 18b present inhalation URs and SFs used for the post-remediation resident scenarios and utility worker and construction worker scenarios, respectively.

4.3 UNCERTAINTIES RELATED TO TOXICITY ASSESSMENT

Estimations of the effects of contaminant exposure to human health are imprecise because of uncertainties in dose-response relationships. Toxicity information for COPCs is limited and corresponding degrees of uncertainty associated with calculated toxicity values vary.

The following uncertainty sources for toxicity values may overestimate or underestimate risks:

- Dose-response data from high dose experiments used to predict adverse health effects from exposure to low, site-related doses;
- Dose-response data from short-term exposure studies used to predict long-term adverse health effects;
- Dose-response data from experimental animal studies used to predict adverse health effects in humans; and
- Dose-response data from homogeneous experimental animal populations used to predict adverse effects in diverse human populations.

Most RfC and RfD values have uncertainty factors ranging from 100 to 1,000. The high uncertainty factor accounts for the uncertainty involved in extrapolating to low doses from high dose studies (USEPA 1989).

Carcinogenic SFs have two important sources of uncertainty: the dose-response curve is assumed to be linear and no threshold dose for cancer induction is assumed. Carcinogens may cause cancer by several different mechanisms. Several types of dose-response curves could result. Data are inadequate to support more detailed assumptions regarding dose response. Burmaster and Von Stackelberg (1988) found that uncertainties associated with carcinogenic SFs make the greatest contribution to the total uncertainty of a carcinogenic risk estimate.

Numerous uncertainties exist regarding carcinogenicity evidence based on animal studies. Animal studies often use high doses to test carcinogenic effects to provide more rapid results and decrease the number of animals needed; however, the high dose may cause cellular damage. When cellular damage occurs, natural repair mechanisms increase the overall rate of cell growth. The result is an increased rate of cancer due to increased cell growth rate and not the carcinogenic effects of the chemical. It is also assumed that all compounds that are carcinogenic in animals are also carcinogenic in humans. Group B2 classified contaminants produce considerable uncertainty in the carcinogenic risk estimates.

Carcinogenic and noncarcinogenic effects from dermal contact with soils are estimated by extrapolating an absorbed toxicity factor for those contaminants with oral toxicity values based on administered doses which could be extrapolated based on effect. A great deal of uncertainty exists regarding the absorption rates used for both dermal and oral exposure routes. The use of a 100% default gastrointestinal

absorption value for PAHs may cause an underestimation of noncarcinogenic risk and an overestimation of carcinogenic risk.

Some chemicals do not have enough quality toxicity testing to assign toxicity values. Therefore, risks may be underestimated in this RA due to the lack of these toxicity values.

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5.0 SCENARIO EVALUATION

The following section discusses general procedures for exposure assessment and risk calculation and applies these procedures to the four scenarios. Results and uncertainties of risk calculations are then discussed by exposure scenario for both carcinogenic and noncarcinogenic cases.

5.1 SCENARIO EXPOSURE ASSESSMENT

The exposure assessment estimates the magnitude of potential human exposure to site-related COPCs for a given scenario through the following steps:

- Characterize exposure setting;
- Identify exposure pathways;
- Quantify exposure; and
- Discuss uncertainties related to exposure assessment.

The exposure setting is characterized by describing the environment to which each identified receptor is exposed. Pertinent exposure pathways are then identified based on the exposure setting. Quantifying exposure for populations and pathways of interest involves determining the exposure point concentrations (EPCs) and pathway-specific daily intakes (DIs). Tables 9, 10, 11 and 12 present the RME and CT EPCs as developed in Section 3.3 for the post-remediation resident 1, resident 2, utility worker and construction worker, respectively.

An average daily intake, DI (in mg chemical of interest per kg of body weight per day) is calculated using the following equation:

$$\mathbf{DI = (C \times HIF)}$$

Where:

DI = Daily Intake (mg/kg-day).
C = Concentration (units are media-dependent).
HIF = Human Intake Factor (units are media-dependent).

and

$$\mathbf{HIF = \frac{(CR \times EF \times ED)}{BW \times AT}}$$

Where:

CR = Contact Rate (units are media-dependent).
EF = Exposure Frequency (workdays/year).
ED = Exposure Duration (years).
BW = Body Weight (kg).
AT_n = Noncarcinogenic Averaging Time = ED (resident).
AT_n = Noncarcinogenic Averaging Time = 7-day week equivalent of EF (construction worker).
AT_c = Carcinogenic Averaging Time = 70 years

The HIF for various soil exposure routes may incorporate additional variables such as fraction of soil ingested (oral exposure) or soil adherence to skin factors (dermal exposure). HIF for the inhalation exposure route omits BW and CR variables when RfCs or URs are used to calculate toxicity.

The DI is an average intake over a lifetime (70 years) for carcinogenic risk calculations and an average intake over the duration of exposure for noncarcinogenic risk estimates. Values for CR, EF and ED may vary for RME and CT. The values for the DI calculations and the rationale used in their selection are presented in the sections pertaining to each individual scenario. As discussed earlier, the RME is intended to evaluate risk for the highest exposure that could reasonably be expected to occur over time. The CT is intended to evaluate risk for an average exposure as a comparison to the RME.

5.2 SCENARIO RISK CHARACTERIZATION

The risk characterization process involves the estimation of human health risks from COPCs based on toxicity and exposure information. Risk characterization consists of the following steps:

- Evaluate noncarcinogenic risk;
- Evaluate carcinogenic risk; and
- Characterize uncertainties related to risk.

Noncarcinogenic and carcinogenic risks are estimated for each COPC and for each exposure pathway when toxicity data are available. The risk is found for both the noncarcinogenic and carcinogenic case for each exposure pathway by summing the risk associated with each COPC. The total risk for each scenario is then found by summing the risk estimated for each exposure pathway.

5.2.1 Noncarcinogenic Risk Values

Noncarcinogenic risks are expressed as a hazard quotient (HQ), which is the ratio of the estimated DI to the RfD or RfC. A HQ greater than 1 indicates that the estimated dose exceeds the RfD or RfC for the contaminant. It is not a statistical probability of the incidence or severity of an adverse health effect, but rather a simple numerical index to identify potential exposure problems (USEPA 1989). The HQ is calculated as follows:

HQ = (DI / RfD) or
= (DI / RfC)

Where:

HQ = Hazard Quotient (unitless).
DI = Daily Intake (mg/kg-day).
RfD = Reference Dose (mg/kg-day).
RfC = Reference Concentration (mg/m^3).

Assuming the effect of exposure to numerous chemicals where no single chemical exceeds a threshold could result in an adverse health effect, the chemical-specific HQ values are summed to calculate the total hazard index (HI) for a given exposure pathway.

$$\mathbf{HI = HQ_1 + HQ_2 + \ldots HQ_j)}$$

Where:

HI = Hazard Index (unitless).

HQ_j = Hazard Quotient of the j^{th} chemical (unitless).

A HI greater than 1 suggests that exposure to all COPCs collectively exceeds a generalized level of concern. The level of concern increases as the HI approaches and exceeds a value of 1. It should be noted, however, that the level of concern does not increase linearly as the HI approaches 1 because individual RfD and RfC values for various substances do not have equal accuracy or precision and are not based on the same severity of toxic effects. The HI may combine noncarcinogenic HQs of chemicals of interest that produce different toxicological effects (e.g., liver damage versus kidney damage) and combines RfDs and RfCs that exhibit varying levels of uncertainty. Therefore, the HI should be regarded as a general indicator of the degree of concern rather than a quantified estimator of potential health effects. When the initial HI calculated for a particular study area is greater than 1, noncarcinogenic risks can be evaluated in greater detail if that is justifiable for the specific situation.

5.2.2 Carcinogenic Risk Values

Carcinogenic risks are expressed as the excess (above background) probability that an individual will develop cancer during a lifetime if exposed to a chemical. Because the SF is often an upper 95 UCL of the slope of the dose-response curve, carcinogenic risk estimates based on SFs are generally upper-bound estimates. This value is calculated using the average DI over a lifetime and the SF for the COPC as follows:

$$\mathbf{Excess\ Risk = DI \times SF}$$

Where:

DI = Daily Intake (mg/kg-day).

SF = Slope Factor $(mg/kg\text{-}day)^{-1}$.

The following equation is used to calculate an inhalation carcinogenic risk using the UR and is also an upper-bound estimate of risk:

$$\mathbf{Excess\ Risk = DI \times UR \times 1000\ \mu g/mg}$$

Where:

DI = Daily intake (mg/kg-day).

UR = Unit risk $(\mu g/m^3)^{-1}$.

Only lifetime average DIs are used in conjunction with SFs and URs to obtain excess lifetime cancer risk estimates because SFs and URs are formulated on the basis of average lifetime exposures.

The observed national background cancer risk (no exposure to site contaminants) is approximately 1 in 4. In the National Contingency Plan (NCP), set forth in Title 40 of the Code of Regulations, Part 300 (40 CFR Part 300), the USEPA set an excess cancer occurrence of 1 in 1 million (a risk of 1×10^{-6}) as the point of departure for determining remediation goals for Superfund sites (40 CFR 300.430[e][2]). According to the Illinois EPA, a site with carcinogenic risks less than 1×10^{-6} generally should be considered a no-action site. For sites with a carcinogenic risk greater than 1×10^{-6}, further site evaluation is required. For a site with a carcinogenic risk greater than 1×10^{-4}, corrective action is normally required (Illinois EPA 1994).

5.3 POST-REMEDIATION RESIDENT 1 SCENARIO

In this section, the exposure assessment and risk characterization for the post-remediation resident 1 scenario is explained. The post-remediation resident 1 scenario evaluates the adult and child resident. Specific assumptions and values for the exposure scenario are discussed, followed by the noncarcinogenic and carcinogenic risk evaluation results.

5.3.1 Exposure Assessment

5.3.1.1 Characterization of Exposure Setting

This scenario evaluates potential exposure for post-remediation resident 1 within the Site. The top 3 feet of soil will be removed across the Site during remediation and replaced with imported clean fill. The post-remediation resident is assumed to be exposed to the COPCs in the soil redistributed to the surface from 3 feet down to 10 feet bgs. During outdoor activities, ingestion of and dermal contact with soil are likely to occur, as well as inhalation of airborne soil and dust and vapors volatilized from soil.

5.3.1.2 Identification of Exposure Pathway

The following pathways were identified for the post-remediation resident 1:

- Incidental ingestion of soil resulting from placing soil-impacted hands or objects in the mouth and also possibly from dust caught in the nose and throat being moved to the back of the mouth and swallowed. A child may directly ingest soil during outdoor activities.
- Dermal contact with soil resulting in the absorption of COPCs.
- Inhalation of airborne soil and dust, which results from breathing respirable particles of soil containing COPCs.
- Inhalation of VOC vapors released from soil.

5.3.1.3 Quantification of Exposure

Values used for HIFs were obtained from USEPA and Illinois EPA guidance (USEPA 1989, 1991, 1993, 1997a, 2004c and Illinois Administrative Code [IAC] 2002) and are summarized in Table 19a for an adult resident and Table 19b for a child resident. USEPA default exposure frequencies of 350 days per year for RME and CT were used based on the conservative assumption that a resident will be routinely exposed

throughout the year. Tables 20 through 27 present exposure concentrations and DIs for the above exposure pathways.

COPCs were evaluated for dermal exposure using RAGS Part E, Supplemental Guidance for Dermal Risk Assessment (USEPA 2004c).

5.3.1.4 Uncertainties Related to Exposure Assessment

The following exposure assessment uncertainties were identified:

- The post-remediation resident scenario evaluates exposure to Site soil. The user may not be exposed as frequently or with the magnitude assumed for this RA; therefore, exposure may be overestimated.
- Exact Site-specific data on human activity patterns are not available; therefore, assumed values for soil contact rates are uncertain. Values selected may be conservative or liberal, leading to an overestimation or underestimation of risk, respectively.
- Dermal uptake of soil COPCs is difficult to estimate. The uptake rate depends on both chemical-specific and Site soil characteristics. Absorption values used to estimate dermal uptake are highly uncertain, possibly leading to an underestimation or overestimation of dose.

5.3.2 Risk Characterization

5.3.2.1 Noncarcinogenic Risk Evaluation

Tables 20 through 27 present calculations of results of noncarcinogenic hazards for the post-remediation resident 1 scenario and Table 54 presents the combined HI values. The overall scenario noncarcinogenic HI is 0.04 for the RME and 0.02 for the CT, which are both below the generalized level of concern of 1 for noncarcinogenic effects.

5.3.2.2 Carcinogenic Risk Evaluation

Tables 20 through 27 present calculations of lifetime cancer risks for the post-remediation resident 1. Table 54 presents the combined carcinogenic risk values. The excess lifetime cancer risk is 8×10^{-6} for the RME and 1×10^{-6} for the CT. The RME cancer risk is above the Illinois EPA no-action level of 1×10^{-6} but falls within the concentration range of 1×10^{-6} and 1×10^{-4} where additional Site evaluation is required. The CT (i.e. additional evaluation) meets the Illinois EPA no-action level of 1×10^{-6}.

5.3.2.3 Uncertainties Related to Risk Evaluation

Uncertainty factors already presented in the preceding sections (exposure assessment and toxicity assessment) also contribute uncertainty to risk estimates for the following reasons:

- COPC exposure concentrations may be overestimated or underestimated because of the limited number of samples collected to represent Site soil.
- Assumed exposure values for the duration and rate of exposure may not represent actual values.
- Toxicity values are uncertain because of dose-response and extrapolation factors.

- Carcinogenic and noncarcinogenic risks are each combined across COPCs. It is assumed that chemical-specific risks are independent and additive; however, COPCs may interact to produce a less than additive effect or a more than additive effect. Chemical interaction data are lacking for most chemical mixtures. In the absence of this information, the standard approach is to assume COPC additivity, which may result in an overestimation or underestimation of risk.

5.4 POST-REMEDIATION RESIDENT 2 SCENARIO

In this section, the exposure assessment and risk characterization for the post-remediation resident 2 scenario is explained. The post-remediation resident 2 scenario evaluates the adult and child resident. Specific assumptions and values for the exposure scenario are discussed, followed by the noncarcinogenic and carcinogenic risk evaluation results.

5.4.1 Exposure Assessment

5.4.1.1 Characterization of Exposure Setting

This scenario evaluates potential exposure for post-remediation resident 2 within the Site. The top 3 feet of soil will be removed across the Site during remediation and replaced with imported clean fill. The post-remediation resident is assumed to be exposed to the COPCs in the soil redistributed to the surface from 3 feet down to the vertical extent of COPCs (17 feet bgs). During outdoor activities, ingestion of and dermal contact with soil are likely to occur, as well as inhalation of airborne soil and dust and vapors volatilized from soil.

5.4.1.2 Identification of Exposure Pathway

The following pathways were identified for the post-remediation resident 2:

- Incidental ingestion of soil resulting from placing soil-impacted hands or objects in the mouth and also possibly from dust caught in the nose and throat being moved to the back of the mouth and swallowed. A child may directly ingest soil during outdoor activities.
- Dermal contact with soil resulting in the absorption of COPCs.
- Inhalation of airborne soil and dust, which results from breathing respirable particles of soil containing COPCs.
- Inhalation of VOC vapors released from soil.

5.4.1.3 Quantification of Exposure

Values used for HIFs were obtained from USEPA and Illinois EPA guidance (USEPA 1989, 1991, 1993, 1997a, 2004c and Illinois Administrative Code [IAC] 2002) and are summarized in Table 19a for an adult resident and Table 19b for a child resident. USEPA default exposure frequencies of 350 days per year for RME and CT were used based on the conservative assumption that a resident will be routinely exposed throughout the year. Tables 28 through 35 present exposure concentrations and DIs for the above exposure pathways.

COPCs were evaluated for dermal exposure using RAGS Part E, Supplemental Guidance for Dermal Risk Assessment (USEPA 2004c).

5.4.1.4 Uncertainties Related to Exposure Assessment

Uncertainties similar to those discussed for the post-remediation resident 1 (Section 5.3.1.4) also apply to the post-remediation resident 2 scenario.

5.4.2 Risk Characterization

5.4.2.1 Noncarcinogenic Risk Evaluation

Tables 28 through 35 present calculations of results of noncarcinogenic hazards for the post-remediation resident 2 scenario and Table 54 presents the combined HI values. The overall scenario noncarcinogenic HI is 0.04 for the RME and 0.02 for the CT, which are both below the generalized level of concern of 1 for noncarcinogenic effects.

5.4.2.2 Carcinogenic Risk Evaluation

Tables 28 through 35 present calculations of lifetime cancer risks for the post-remediation resident 2 and Table 54 presents the combined carcinogenic risk values. The excess lifetime cancer risk is 7×10^{-6} for the RME and 1×10^{-6} for the CT. The RME cancer risk is above the Illinois EPA no-action level of 1×10^{-6} but falls within the concentration range of 1×10^{-6} and 1×10^{-4} where additional Site evaluation is required. The CT (i.e. additional evaluation) meets the Illinois EPA no-action level of 1×10^{-6}.

5.4.2.3 Uncertainties Related to Risk Evaluation

Uncertainties similar to those discussed for the post-remediation resident 1 scenario (Section 5.3.2.3) also apply to the post-remediation resident 2 scenario.

5.5 POST-REMEDIATION UTILITY WORKER SCENARIO

In this section, the exposure assessment and risk characterization for the post-remediation utility worker scenario is explained. Specific assumptions and values for the exposure scenario are discussed, followed by the noncarcinogenic and carcinogenic risk evaluation results.

5.5.1 Exposure Assessment

5.5.1.1 Characterization of Exposure Setting

This scenario evaluates potential exposure for a post-remediation utility worker within the Site. The top 3 feet of soil will be removed across the Site during remediation and replaced with imported clean fill. The post-remediation utility worker is assumed to be exposed to COPCs in soil from 3 feet to a depth of 10 feet bgs. During underground utility repair or installation activities at the Site, ingestion of and dermal contact with soil are likely to occur, as well as inhalation of airborne soil and chemical vapors volatilized from soil.

5.5.1.2 Identification of Exposure Pathway

The following pathways were identified for the post-remediation utility worker:

- Incidental ingestion of soil resulting from placing soil-contaminated hands or objects in the mouth and possibly from dust caught in the nose and throat being moved to the back of the mouth and swallowed.
- Dermal contact with soil resulting in the absorption of COPCs.
- Inhalation of airborne soil and dust, which results from breathing respirable particles of soil containing COPCs.
- Inhalation of VOC vapors released from soil during utility repair or installation activities and disruption of the soil surface.

5.5.1.3 Quantification of Exposure

Most values used for the HIFs were obtained from the USEPA and Illinois EPA guidance (USEPA 1991, 1997a, 2002a, 2004c and IAC 2002) and are summarized in Table 36. An assumed exposure frequency of 20 days per year for the RME and 10 days per year for the CT was used based on anticipated utility repair or installation activities at the Site. Tables 37 through 44 present exposure concentrations and DIs for the above exposure pathways.

5.5.1.4 Uncertainties Related to Exposure Assessment

The following exposure assessment uncertainties were identified:

- The post-remediation utility worker scenario evaluates exposure to Site soil. The user may not be exposed as frequently or with the magnitude assumed for this RA; therefore, exposure may be overestimated.
- The post-remediation utility worker is assumed to be exposed to soil containing the maximum detected concentrations of COPCs, which may overestimate risk.
- Exact site-specific data on human activity patterns are not available; therefore, assumed values for soil contact rates are uncertain. Values selected may be conservative or liberal, leading to an overestimation or underestimation of risk, respectively.
- Dermal uptake of soil COPCs is difficult to estimate. The uptake rate depends on both chemical-specific and Site soil characteristics. Absorption values used to estimate dermal uptake are highly uncertain, possibly leading to an overestimation or underestimation of dose.
- The exposure to both fugitive dust and vapors from VOCs in soil is assumed for VOCs, which may overestimate dose.

5.5.2 Risk Characterization

5.5.2.1 Noncarcinogenic Risk Evaluation

Tables 37 through 44 present calculations of results of noncarcinogenic hazards for the post-remediation utility worker scenario and Table 54 presents the combined HI values. The overall scenario

noncarcinogenic HI is 0.5 for the RME and 0.4 for the CT, which are below the generalized level of concern of 1 for noncarcinogenic effects.

5.5.2.2 Carcinogenic Risk Evaluation

Tables 37 through 44 present calculations of lifetime cancer risks for the post-remediation utility worker scenario and Table 54 presents the combined carcinogenic risk values. The excess lifetime cancer risk is 1×10^{-7} for the RME and 2×10^{-8} for the CT. Both the RME and CT cancer risks are below the Illinois EPA no-action level of 1×10^{-6}.

5.5.2.3 Uncertainties Related to Risk Evaluation

Uncertainty factors already presented in the preceding sections (exposure assessment and toxicity assessment) also contribute uncertainty to risk estimates for the following reasons:

- COPC exposure concentrations may be overestimated or underestimated because of the limited number of samples collected to represent Site soil.
- Assumed exposure values for the duration and rate of exposure may not represent actual values.
- Toxicity values are uncertain because of dose-response and extrapolation factors.
- Carcinogenic and noncarcinogenic risks are each combined across COPCs. It is assumed that chemical-specific risks are independent and additive; however, COPCs may interact to produce a less than additive effect or a more than additive effect. Chemical interaction data are lacking for most chemical mixtures. In the absence of this information, the standard approach is to assume COPC additivity, which may result in an overestimation or underestimation of risk.

5.6 POST-REMEDIATION CONSTRUCTION WORKER SCENARIO

In this section, the exposure assessment and risk characterization for the post-remediation construction worker scenario is explained. Specific assumptions and values for the exposure scenario are discussed, followed by the noncarcinogenic and carcinogenic risk evaluation results.

5.6.1 Exposure Assessment

5.6.1.1 Characterization of Exposure Setting

This scenario evaluates potential exposure for a post-remediation construction worker at the Site. The top 3 feet of soil will be removed across the Site during remediation and replaced with imported clean fill. During any future construction work, excavations could provide exposure to COPCs in soil from 3 feet to a depth equal to the vertical extent of COPCs (17 feet bgs), an assumed maximum depth for typical construction excavations. During construction work, ingestion of and dermal contact with soil are likely to occur, as well as inhalation of airborne soil and vapors volatilized from soil.

5.6.1.2 Identification of Exposure Pathway

The following pathways were identified for the post-remediation construction worker:

- Incidental ingestion of soil resulting from placing soil-contaminated hands or objects in the mouth and possibly from dust caught in the nose and throat being moved to the back of the mouth and swallowed.
- Dermal contact with soil resulting in the absorption of COPCs.
- Inhalation of airborne soil and dust, which results from breathing respirable particles of soil containing COPCs.
- Inhalation of VOC vapors released from soil during construction activities and disruption of the soil surface.

5.6.1.3 Quantification of Exposure

Most values used for the HIFs were obtained from the USEPA and Illinois EPA guidance (USEPA 1991, 1997a, 2002a, 2004c and IAC 2002) and are summarized in Table 45. A Site-specific exposure frequency of 250 days per year for the RME and 125 days per year for the CT was assumed to represent a conservative average redevelopment construction project excavation period of 1 year for the RME and 6 months for the CT. Tables 46 through 53 present exposure concentrations and DIs for the above exposure pathways.

5.6.1.4 Uncertainties Related to Exposure Assessment

Uncertainties similar to those discussed for the post-remediation resident 1 (Section 5.3.1.4) and utility worker (Section 5.5.1.4) also apply to the post-remediation construction worker scenario.

5.6.2 Risk Characterization

5.6.2.1 Noncarcinogenic Risk Evaluation

Tables 46 through 53 present calculations of results of noncarcinogenic hazards for the post-remediation construction worker scenario and Table 54 presents the combined HI values. The overall scenario noncarcinogenic HI is 0.5 for the RME and 0.4 for the CT, which are both below the generalized level of concern of 1 for noncarcinogenic effects.

5.6.2.2 Carcinogenic Risk Evaluation

Tables 46 through 53 present calculations of lifetime cancer risks for the post-remediation construction worker scenario and Table 54 presents the combined carcinogenic risk values. The excess lifetime cancer risk is 1×10^{-6} for the RME and 2×10^{-7} for the CT. The RME cancer risk is above the Illinois EPA no-action level of 1×10^{-6}. The CT cancer risk is below the Illinois EPA no-action level of 1×10^{-6}.

5.6.2.3 Uncertainties Related to Risk Evaluation

Uncertainties similar to those discussed for the post-remediation resident 1 scenario (Section 5.3.2.3) and utility worker (Section 5.5.1.4) also apply to the post-remediation construction worker scenario.

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6.0 RISK ASSESSMENT SUMMARY

The Tier 3 risk evaluation was performed for future resident, utility worker and construction worker receptors at the Site based on the soil data sets containing samples collected from soil that will remain on-site following remediation. These data sets contain only samples collected during site investigation activities and are therefore limited. The scenarios and risk assessment variables used in this evaluation will be used to conduct a formal risk assessment to be included in the RACR. The RACR Tier 3 risk assessment will use data sets including both soil sample results from site investigation soil samples and confirmation soil samples; and will fully evaluate risk to resident, utility worker and construction worker receptors at the Site.

The lower of the two resident receptors EPCs (resident 1 or resident 2) calculated in this risk evaluation will be used as a Tier 3 screening level for confirmation samples collected during remediation activities.

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7.0 REFERENCES

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Tables
Tier 3 Risk Evaluation
The Former Willow Street Station
Manufactured Gas Plant Site,
1640 North Kingsbury Street

Table 1
Soil Analytical Results
Post-Remediation Resident 1 and Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration					
	SB01-002 8-10	SP02-002 3-4	SP03-002 4-5	SP16-002 9-10	SB31-002 6-8	SB33-002 5-7
TCL Volatiles (mg/kg)						
Acetone	0.041 U	0.091	0.32	0.1	0.064 U	0.12
Benzene	0.0082 U	0.015	0.017 U	0.0098 U	0.013 U	0.012 U
Bromodichloromethane	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
Bromoform	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
Bromomethane	0.016 U	0.016 U	0.034 U	0.02 U	0.026 U	0.024 U
2-Butanone	0.016 U	0.02	0.072	0.02 U	0.026 U	0.027
Carbon Disulfide	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
Carbon Tetrachloride	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
Chlorobenzene	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
Chloroethane	0.016 U	0.016 U	0.034 U	0.02 U	0.026 U	0.024 U
Chloroform	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
Chloromethane	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
Dibromochloromethane	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
1,1-Dichloroethane	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
1,2-Dichloroethane	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
1,1-Dichloroethene	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
cis-1,2-Dichloroethene	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
trans-1,2-Dichloroethene	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
1,2-Dichloropropane	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
cis-1,3-Dichloropropene	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
trans-1,3-Dichloropropene	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
Ethylbenzene	0.0082 U	0.049	0.017 U	0.0098 U	0.013 U	0.012 U
2-Hexanone	0.016 U	0.016 U	0.034 U	0.02 U	0.026 U	0.024 U
4-Methyl-2-Pentanone	0.016 U	0.016 U	0.034 U	0.02 U	0.026 U	0.024 U
Methylene Chloride	0.016 U	0.016 U	0.034 U	0.02 U	0.026 U	0.024 U
Styrene	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
1,1,2,2-Tetrachloroethane	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
Tetrachloroethene	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
Toluene	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
1,1,1-Trichloroethane	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
1,1,2-Trichloroethane	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
Trichloroethene	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
Vinyl Chloride	0.016 U	0.016 U	0.034 U	0.02 U	0.026 U	0.024 U
m,p-Xylene	0.0082 U	0.0081 U	0.017 U	0.0098 U	0.013 U	0.012 U
o-Xylene	0.0082 U	0.012	0.017 U	0.0098 U	0.013 U	0.025

NOTE:
(1) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit

Table 1 (Continued)
Soil Analytical Results
Post-Remediation Resident 1 and Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration					
	SB01-002 8-10	SP02-002 3-4	SP03-002 4-5	SP16-002 9-10	SB31-002 6-8	SB33-002 5-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
Bis(2-chloroethyl)ether	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
Bis(2-ethylhexyl)phthalate	0.45	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
4-Bromophenyl phenyl ether	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
Butyl benzyl phthalate	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
Carbazole	0.38 U	0.47	0.44 U	0.39 U	0.37 U	0.4 U
4-Chloro-3-methylphenol	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
4-Chloroaniline	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
2-Chloronaphthalene	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
2-Chlorophenol	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
4-Chlorophenyl phenyl ether	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
Dibenzofuran	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
1,2-Dichlorobenzene	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
1,3-Dichlorobenzene	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
1,4-Dichlorobenzene	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
3,3-Dichlorobenzidine	0.76 U	0.75 U	0.89 U	0.77 U	0.74 U	0.81 U
2,4-Dichlorophenol	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
Diethyl phthalate	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
Dimethyl phthalate	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
Di-n-butyl phthalate	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
2,4-Dimethylphenol	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
4,6-Dinitro-2-methylphenol	1.8 U	1.8 U	2.1 U	1.9 U	1.8 U	2 U
2,4-Dinitrophenol	1.8 U	1.8 U	2.1 U	1.9 U	1.8 U	2 U
2,4-Dinitrotoluene	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
2,6-Dinitrotoluene	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
Di-n-octyl phthalate	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
Hexachlorobenzene	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
Hexachlorobutadiene	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
Hexachlorocyclopentadiene	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
Hexachloroethane	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
Isophorone	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
2-Methylnaphthalene	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
2-Methylphenol	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
4-Methylphenol (m/p-cresols)	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
2-Nitroaniline	1.8 U	1.8 U	2.1 U	1.9 U	1.8 U	2 U
3-Nitroaniline	1.8 U	1.8 U	2.1 U	1.9 U	1.8 U	2 U
4-Nitroaniline	1.8 U	1.8 U	2.1 U	1.9 U	1.8 U	2 U
Nitrobenzene	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
2-Nitrophenol	1.8 U	1.8 U	2.1 U	1.9 U	1.8 U	2 U
4-Nitrophenol	1.8 U	1.8 U	2.1 U	1.9 U	1.8 U	2 U
N-Nitrosodi-n-propylamine	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
N-Nitrosodiphenylamine	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
2,2-Oxybis(1-Chloropropane)	0.016 U	0.016 U	0.019 U	0.016 U	0.016 U	0.017 U
Pentachlorophenol	1.8 U	1.8 U	2.1 U	1.9 U	1.8 U	2 U
Phenol	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
1,2,4-Trichlorobenzene	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U
2,4,5-Trichlorophenol	0.76 U	0.75 U	0.89 U	0.77 U	0.74 U	0.81 U
2,4,6-Trichlorophenol	0.38 U	0.38 U	0.44 U	0.39 U	0.37 U	0.4 U

NOTE:
(1) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit

Table 1 (Continued)
Soil Analytical Results
Post-Remediation Resident 1 and Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration					
	SB01-002 8-10	SP02-002 3-4	SP03-002 4-5	SP16-002 9-10	SB31-002 6-8	SB33-002 5-7
PAHs (mg/kg)						
Acenaphthene	0.029 U	0.19	0.034 U	0.029 U	0.028 U	0.031 U
Acenaphthylene	0.029 U	0.13	0.034 U	0.029 U	0.029	0.031 U
Anthracene	0.16	0.3	0.034 U	0.029 U	0.047	0.031 U
Benzo(a)anthracene	0.34	0.43	0.034 U	0.029 U	0.028 U	0.031 U
Benzo(b)fluoranthene	0.32	0.36	0.034 U	0.029 U	0.028 U	0.031 U
Benzo(k)fluoranthene	0.26	0.39	0.034 U	0.029 U	0.028 U	0.031 U
Benzo(g,h,i)perylene	0.23	0.48	0.034 U	0.029 U	0.028 U	0.031 U
Benzo(a)pyrene	0.21	0.52	0.034 U	0.029 U	0.028 U	0.031 U
Chrysene	0.67	0.62	0.034 U	0.029 U	0.075	0.031 U
Dibenzo(a,h)anthracene	0.099	0.13	0.034 U	0.029 U	0.028 U	0.031 U
Fluoranthene	1.1	0.85	0.034 U	0.029 U	0.075	0.031 U
Fluorene	0.029 U	0.21	0.034 U	0.029 U	0.03	0.031 U
Indeno(1,2,3-cd)pyrene	0.2	0.35	0.034 U	0.029 U	0.028 U	0.031 U
Naphthalene	0.044	0.28	0.034 U	0.029 U	0.11	0.14
Phenanthrene	0.35	1	0.034 U	0.029 U	0.17	0.076
Pyrene	1.2	1.1	0.034 U	0.029 U	0.13	0.047
PCBs (mg/kg)						
Aroclor 1016	0.093 U	0.09 U	0.1 U	0.094 U	0.093 U	0.096 U
Aroclor 1221	0.093 U	0.09 U	0.1 U	0.094 U	0.093 U	0.096 U
Aroclor 1232	0.093 U	0.09 U	0.1 U	0.094 U	0.093 U	0.096 U
Aroclor 1242	0.093 U	0.09 U	0.1 U	0.094 U	0.093 U	0.096 U
Aroclor 1248	0.093 U	0.09 U	0.1 U	0.094 U	0.093 U	0.096 U
Aroclor 1254	0.19 U	0.18 U	0.2 U	0.19 U	0.19 U	0.19 U
Aroclor 1260	0.19 U	0.18 U	0.2 U	0.19 U	0.19 U	0.19 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	1 UJ	1 U	1.2 U	1 UJ	1.1 UJ	1.1 UJ
Arsenic	9.2	2.5	3.6	12 J	12 J	5.1 J
Barium	47	19	58	79 J	31 J	97 J
Beryllium	0.87	0.63	1.3	1.1	0.93	1.2
Cadmium	0.54	0.52 U	0.6 U	0.52 U	0.55 U	0.59
Chromium	20	6.9	20	17 J	19 J	17 J
Copper	32	8.9	18	39 J	29 J	31 J
Lead	41	31	17	21	18	17
Mercury	0.28	0.035	0.031 U	0.027 U	0.037	0.046
Nickel	33	5.5	24	37 J	31 J	26 J
Selenium	1 U	1 U	1.2 U	1 U	1.1 U	1.1 U
Silver	1 U	1 U	1.2 U	1 U	1.1 U	1.1 U
Thallium	4.2	1 U	1.2	1.8	1.2	1.9
Zinc	70 J	23	63	40 J	45 J	54 J
Total Cyanide	0.27 U	0.26 U	0.31 U	0.25 U	0.27 U	0.34 U

NOTES:
(1) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit
(2) J - Indicates an estimated value

Table 1 (Continued)
Soil Analytical Results
Post-Remediation Resident 1 and Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SP34-002 5-7	SP35-002 6-7	SP37-002 8-9	SP40-002 7-8	SP44-002 6-7
TCL Volatiles (mg/kg)					
Acetone	0.14	0.13	0.082	0.071	0.082
Benzene	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
Bromodichloromethane	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
Bromoform	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
Bromomethane	0.024 U	0.023 U	0.02 U	0.02 U	0.018 U
2-Butanone	0.024 U	0.027	0.02 U	0.02 U	0.018 U
Carbon Disulfide	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
Carbon Tetrachloride	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
Chlorobenzene	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
Chloroethane	0.024 U	0.023 U	0.02 U	0.02 U	0.018 U
Chloroform	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
Chloromethane	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
Dibromochloromethane	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
1,1-Dichloroethane	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
1,2-Dichloroethane	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
1,1-Dichloroethene	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
cis-1,2-Dichloroethene	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
trans-1,2-Dichloroethene	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
1,2-Dichloropropane	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
cis-1,3-Dichloropropene	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
trans-1,3-Dichloropropene	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
Ethylbenzene	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
2-Hexanone	0.024 U	0.023 U	0.02 U	0.02 U	0.018 U
4-Methyl-2-Pentanone	0.024 U	0.023 U	0.02 U	0.02 U	0.018 U
Methylene Chloride	0.024 U	0.023 U	0.02 U	0.02 U	0.018 U
Styrene	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
1,1,2,2-Tetrachloroethane	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
Tetrachloroethene	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
Toluene	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
1,1,1-Trichloroethane	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
1,1,2-Trichloroethane	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
Trichloroethene	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
Vinyl Chloride	0.024 U	0.023 U	0.02 U	0.02 U	0.018 U
m,p-Xylene	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U
o-Xylene	0.012 U	0.012 U	0.0099 U	0.01 U	0.0089 U

NOTE:
(1) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(2) J - Indicates an estimated value.

Table 1 (Continued)
Soil Analytical Results
Post-Remediation Resident 1 and Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SP34-002 5-7	SP35-002 6-7	SP37-002 8-9	SP40-002 7-8	SP44-002 6-7
TCL Semivolatiles (mg/kg)					
Bis(2-chloroethoxy)methane	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
Bis(2-chloroethyl)ether	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
Bis(2-ethylhexyl)phthalate	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
4-Bromophenyl phenyl ether	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
Butyl benzyl phthalate	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
Carbazole	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
4-Chloro-3-methylphenol	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
4-Chloroaniline	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
2-Chloronaphthalene	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
2-Chlorophenol	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
4-Chlorophenyl phenyl ether	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
Dibenzofuran	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
1,2-Dichlorobenzene	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
1,3-Dichlorobenzene	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
1,4-Dichlorobenzene	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
3,3-Dichlorobenzidine	0.8 U	0.79 U	0.77 U	0.77 U	0.79 U
2,4-Dichlorophenol	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
Diethyl phthalate	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
Dimethyl phthalate	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
Di-n-butyl phthalate	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
2,4-Dimethylphenol	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
4,6-Dinitro-2-methylphenol	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrophenol	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
2,6-Dinitrotoluene	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
Di-n-octyl phthalate	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
Hexachlorobenzene	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
Hexachlorobutadiene	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
Hexachlorocyclopentadiene	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
Hexachloroethane	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
Isophorone	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
2-Methylnaphthalene	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
2-Methylphenol	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
4-Methylphenol (m/p-cresols)	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
2-Nitroaniline	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
3-Nitroaniline	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Nitroaniline	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Nitrobenzene	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
2-Nitrophenol	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Nitrophenol	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
N-Nitrosodiphenylamine	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
2,2-Oxybis(1-Chloropropane)	0.017 U	0.017 U	0.016 U	0.016 U	0.017 U
Pentachlorophenol	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
1,2,4-Trichlorobenzene	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U
2,4,5-Trichlorophenol	0.8 U	0.79 U	0.77 U	0.77 U	0.79 U
2,4,6-Trichlorophenol	0.4 U	0.39 U	0.39 U	0.39 U	0.4 U

NOTE:
(1) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

Table 1 (Continued)
Soil Analytical Results
Post-Remediation Resident 1 and Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SP34-002 5-7	SP35-002 6-7	SP37-002 8-9	SP40-002 7-8	SP44-002 6-7
PAHs (mg/kg)					
Acenaphthene	0.12	0.03 U	0.029 U	0.029 U	0.03 U
Acenaphthylene	0.086	0.03 U	0.029 U	0.029 U	0.03 U
Anthracene	0.17	0.03 U	0.029 U	0.029 U	0.03 U
Benzo(a)anthracene	0.094	0.064	0.029 U	0.029 U	0.03 U
Benzo(b)fluoranthene	0.13	0.041	0.029 U	0.029 U	0.03 U
Benzo(k)fluoranthene	0.14	0.056	0.029 U	0.029 U	0.03 U
Benzo(g,h,i)perylene	0.36	0.037	0.029 U	0.029 U	0.03 U
Benzo(a)pyrene	0.14	0.072	0.029 U	0.029 U	0.03 U
Chrysene	0.39	0.066	0.029 U	0.029 U	0.03 U
Dibenzo(a,h)anthracene	0.11	0.03 U	0.029 U	0.029 U	0.03 U
Fluoranthene	0.33	0.074	0.029 U	0.029 U	0.03 U
Fluorene	0.31	0.03 U	0.029 U	0.029 U	0.03 U
Indeno(1,2,3-cd)pyrene	0.24	0.036	0.029 U	0.029 U	0.03 U
Naphthalene	0.03 U	0.03 U	0.056	0.029 U	0.03 U
Phenanthrene	0.13	0.03 U	0.029 U	0.029 U	0.03 U
Pyrene	1.2	0.074	0.029 U	0.029 U	0.03 U
PCBs (mg/kg)					
Aroclor 1016	0.098 U	0.095 U	0.092 U	0.093 U	0.096 U
Aroclor 1221	0.098 U	0.095 U	0.092 U	0.093 U	0.096 U
Aroclor 1232	0.098 U	0.095 U	0.092 U	0.093 U	0.096 U
Aroclor 1242	0.098 U	0.095 U	0.092 U	0.093 U	0.096 U
Aroclor 1248	0.098 U	0.095 U	0.092 U	0.093 U	0.096 U
Aroclor 1254	0.2 U	0.19 U	0.18 U	0.19 U	0.19 U
Aroclor 1260	0.2 U	0.19 U	0.18 U	0.19 U	0.19 U
Priority Pollutant Metals and Total Cyanide (mg/kg)					
Antimony	1.2 UJ	1.1 UJ	0.97 UJ	1.1 UJ	1.1 UJ
Arsenic	7.5 J	5.8 J	15 J	10 J	13 J
Barium	100 J	98 J	98 J	88 J	79 J
Beryllium	1.3	0.83	1.2	1.1	1.2
Cadmium	0.59 U	0.56 U	0.53	0.56 U	0.57 U
Chromium	21 J	11 J	20 J	16 J	20 J
Copper	28 J	11 J	38 J	33 J	31 J
Lead	19	36	22	19	19
Mercury	0.031 U	0.14	0.026 U	0.029 U	0.03 U
Nickel	33 J	12 J	38 J	36 J	39 J
Selenium	1.2 U	1.1 U	0.97 U	1.1 U	1.1 U
Silver	1.2 U	1.1 U	0.97 U	1.1 U	1.1 U
Thallium	2.1	2	2	2.2	1.8
Zinc	53 J	40 J	46 J	52 J	52 J
Total Cyanide	0.31 U	0.29 U	0.25 U	0.32 U	0.32 U

NOTES:
(1) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(2) J - Indicates an estimated value.

Table 2
Soil Analytical Results
Post-Remediation Resident 2 and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration					
	SB01-002 8-10	SP02-002 3-4	SP03-002 4-5	SP07-003 16-17	SP13-003 15-16	SB15-003 10-12
TCL Volatiles (mg/kg)						
Acetone	0.041 U	0.091	0.32	0.046 U	0.055 U	0.1
Benzene	0.0082 U	0.015	0.017 U	0.0093 U	0.011 U	0.011 U
Bromodichloromethane	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
Bromoform	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
Bromomethane	0.016 U	0.016 U	0.034 U	0.019 U	0.022 U	0.022 U
2-Butanone	0.016 U	0.02	0.072	0.019 U	0.022 U	0.022 U
Carbon Disulfide	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
Carbon Tetrachloride	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
Chlorobenzene	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
Chloroethane	0.016 U	0.016 U	0.034 U	0.019 U	0.022 U	0.022 U
Chloroform	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
Chloromethane	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
Dibromochloromethane	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
1,1-Dichloroethane	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
1,2-Dichloroethane	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
1,1-Dichloroethene	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
cis-1,2-Dichloroethene	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
trans-1,2-Dichloroethene	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
1,2-Dichloropropane	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
cis-1,3-Dichloropropene	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
trans-1,3-Dichloropropene	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
Ethylbenzene	0.0082 U	0.049	0.017 U	0.0093 U	0.011 U	0.011 U
2-Hexanone	0.016 U	0.016 U	0.034 U	0.019 U	0.022 U	0.022 U
4-Methyl-2-Pentanone	0.016 U	0.016 U	0.034 U	0.019 U	0.022 U	0.022 U
Methylene Chloride	0.016 U	0.016 U	0.034 U	0.019 U	0.022 U	0.022 U
Styrene	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
1,1,2,2-Tetrachloroethane	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
Tetrachloroethene	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
Toluene	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
1,1,1-Trichloroethane	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
1,1,2-Trichloroethane	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
Trichloroethene	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
Vinyl Chloride	0.016 U	0.016 U	0.034 U	0.019 U	0.022 U	0.022 U
m,p-Xylene	0.0082 U	0.0081 U	0.017 U	0.0093 U	0.011 U	0.011 U
o-Xylene	0.0082 U	0.012	0.017 U	0.0093 U	0.011 U	0.011 U

NOTE:
(1) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

Table 2 (Continued)
Soil Analytical Results
Post-Remediation Resident 2 and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration					
	SB01-002 8-10	SP02-002 3-4	SP03-002 4-5	SP07-003 16-17	SP13-003 15-16	SB15-003 10-12
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
Bis(2-chloroethyl)ether	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
Bis(2-ethylhexyl)phthalate	0.45	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
4-Bromophenyl phenyl ether	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
Butyl benzyl phthalate	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
Carbazole	0.38 U	0.47	0.44 U	0.39 U	0.39 U	0.42 U
4-Chloro-3-methylphenol	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
4-Chloroaniline	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
2-Chloronaphthalene	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
2-Chlorophenol	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
4-Chlorophenyl phenyl ether	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
Dibenzofuran	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
1,2-Dichlorobenzene	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
1,3-Dichlorobenzene	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
1,4-Dichlorobenzene	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
3,3-Dichlorobenzidine	0.76 U	0.75 U	0.89 U	0.79 U	0.78 U	0.85 U
2,4-Dichlorophenol	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
Diethyl phthalate	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
Dimethyl phthalate	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
Di-n-butyl phthalate	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
2,4-Dimethylphenol	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
4,6-Dinitro-2-methylphenol	1.8 U	1.8 U	2.1 U	1.9 U	1.9 U	2.1 U
2,4-Dinitrophenol	1.8 U	1.8 U	2.1 U	1.9 U	1.9 U	2.1 U
2,4-Dinitrotoluene	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
2,6-Dinitrotoluene	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
Di-n-octyl phthalate	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
Hexachlorobenzene	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
Hexachlorobutadiene	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
Hexachlorocyclopentadiene	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
Hexachloroethane	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
Isophorone	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
2-Methylnaphthalene	0.38 U	0.38 U	0.44 U	0.39 U	0.79	0.42 U
2-Methylphenol	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
4-Methylphenol (m/p-cresols)	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
2-Nitroaniline	1.8 U	1.8 U	2.1 U	1.9 U	1.9 U	2.1 U
3-Nitroaniline	1.8 U	1.8 U	2.1 U	1.9 U	1.9 U	2.1 U
4-Nitroaniline	1.8 U	1.8 U	2.1 U	1.9 U	1.9 U	2.1 U
Nitrobenzene	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
2-Nitrophenol	1.8 U	1.8 U	2.1 U	1.9 U	1.9 U	2.1 U
4-Nitrophenol	1.8 U	1.8 U	2.1 U	1.9 U	1.9 U	2.1 U
N-Nitrosodi-n-propylamine	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
N-Nitrosodiphenylamine	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
2,2-Oxybis(1-Chloropropane)	0.016 U	0.016 U	0.019 U	0.017 U	0.017 U	0.018 U
Pentachlorophenol	1.8 U	1.8 U	2.1 U	1.9 U	1.9 U	2.1 U
Phenol	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
1,2,4-Trichlorobenzene	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U
2,4,5-Trichlorophenol	0.76 U	0.75 U	0.89 U	0.79 U	0.78 U	0.85 U
2,4,6-Trichlorophenol	0.38 U	0.38 U	0.44 U	0.39 U	0.39 U	0.42 U

NOTE:
(1) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

Table 2 (Continued)
Soil Analytical Results
Post-Remediation Resident 2 and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration					
	SB01-002 8-10	SP02-002 3-4	SP03-002 4-5	SP07-003 16-17	SP13-003 15-16	SB15-003 10-12
PAHs (mg/kg)						
Acenaphthene	0.029 U	0.19	0.034 U	0.03 U	0.077	0.032 U
Acenaphthylene	0.029 U	0.13	0.034 U	0.03 U	0.03 U	0.032 U
Anthracene	0.16	0.3	0.034 U	0.03 U	0.03 U	0.032 U
Benzo(a)anthracene	0.34	0.43	0.034 U	0.03 U	0.03 U	0.032 U
Benzo(b)fluoranthene	0.32	0.36	0.034 U	0.03 U	0.03 U	0.032 U
Benzo(k)fluoranthene	0.26	0.39	0.034 U	0.03 U	0.03 U	0.032 U
Benzo(g,h,i)perylene	0.23	0.48	0.034 U	0.03 U	0.03 U	0.032 U
Benzo(a)pyrene	0.21	0.52	0.034 U	0.03 U	0.03 U	0.032 U
Chrysene	0.67	0.62	0.034 U	0.03 U	0.03 U	0.032 U
Dibenzo(a,h)anthracene	0.099	0.13	0.034 U	0.03 U	0.03 U	0.032 U
Fluoranthene	1.1	0.85	0.034 U	0.03 U	0.03 U	0.032 U
Fluorene	0.029 U	0.21	0.034 U	0.03 U	0.036	0.032 U
Indeno(1,2,3-cd)pyrene	0.2	0.35	0.034 U	0.03 U	0.03 U	0.032 U
Naphthalene	0.044	0.28	0.034 U	0.03 U	1.1	0.032 U
Phenanthrene	0.35	1	0.034 U	0.03 U	0.063	0.032 U
Pyrene	1.2	1.1	0.034 U	0.03 U	0.03 U	0.032 U
PCBs (mg/kg)						
Aroclor 1016	0.093 U	0.09 U	0.1 U	0.096 U	0.093 U	0.1 U
Aroclor 1221	0.093 U	0.09 U	0.1 U	0.096 U	0.093 U	0.1 U
Aroclor 1232	0.093 U	0.09 U	0.1 U	0.096 U	0.093 U	0.1 U
Aroclor 1242	0.093 U	0.09 U	0.1 U	0.096 U	0.093 U	0.1 U
Aroclor 1248	0.093 U	0.09 U	0.1 U	0.096 U	0.093 U	0.1 U
Aroclor 1254	0.19 U	0.18 U	0.2 U	0.19 U	0.19 U	0.21 U
Aroclor 1260	0.19 U	0.18 U	0.2 U	0.19 U	0.19 U	0.21 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	1 UJ	1 U	1.2 U	1.1 UJ	1 UJ	1.1 U
Arsenic	9.2	2.5	3.6	8.1 J	9.6 J	5 J
Barium	47	19	58	98 J	74 J	22 J
Beryllium	0.87	0.63	1.3	1.2	1	1.2
Cadmium	0.54	0.52 U	0.6 U	0.57 U	0.66	0.57 U
Chromium	20	6.9	20	21 J	17 J	19 J
Copper	32	8.9	18	24 J	34 J	31 J
Lead	41	31	17	16	19	16
Mercury	0.28	0.035	0.031 U	0.032 U	0.061	0.032 U
Nickel	33	5.5	24	31 J	30 J	30 J
Selenium	1 U	1 U	1.2 U	1.1 U	1 U	1.1 U
Silver	1 U	1 U	1.2 U	1.1 U	1 U	1.1 U
Thallium	4.2	1 U	1.2	2.1	1.9	2.5
Zinc	70 J	23	63	39 J	42 J	42 J
Total Cyanide	0.27 U	0.26 U	0.31 U	0.29 U	0.26 U	0.28 U

NOTES:
(1) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(2) J - Indicates an estimated value.

Table 2 (Continued)
Soil Analytical Results
Post-Remediation Resident 2 and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration					
	SP16-002 9-10	SP16-003 15-16	SB31-002 6-8	SB33-002 5-7	SB33-003 10-12	SP34-002 5-7
TCL Volatiles (mg/kg)						
Acetone	0.1	0.062 U	0.064 U	0.12	0.064 U	0.14
Benzene	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
Bromodichloromethane	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
Bromoform	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
Bromomethane	0.02 U	0.025 U	0.026 U	0.024 U	0.026 U	0.024 U
2-Butanone	0.02 U	0.025 U	0.026 U	0.027	0.026 U	0.024 U
Carbon Disulfide	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
Carbon Tetrachloride	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
Chlorobenzene	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
Chloroethane	0.02 U	0.025 U	0.026 U	0.024 U	0.026 U	0.024 U
Chloroform	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
Chloromethane	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
Dibromochloromethane	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
1,1-Dichloroethane	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
1,2-Dichloroethane	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
1,1-Dichloroethene	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
cis-1,2-Dichloroethene	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
trans-1,2-Dichloroethene	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
1,2-Dichloropropane	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
cis-1,3-Dichloropropene	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
trans-1,3-Dichloropropene	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
Ethylbenzene	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
2-Hexanone	0.02 U	0.025 U	0.026 U	0.024 U	0.026 U	0.024 U
4-Methyl-2-Pentanone	0.02 U	0.025 U	0.026 U	0.024 U	0.026 U	0.024 U
Methylene Chloride	0.02 U	0.025 U	0.026 U	0.024 U	0.026 U	0.024 U
Styrene	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
1,1,2,2-Tetrachloroethane	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
Tetrachloroethene	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
Toluene	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
1,1,1-Trichloroethane	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
1,1,2-Trichloroethane	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
Trichloroethene	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
Vinyl Chloride	0.02 U	0.025 U	0.026 U	0.024 U	0.026 U	0.024 U
m,p-Xylene	0.0098 U	0.012 U	0.013 U	0.012 U	0.013 U	0.012 U
o-Xylene	0.0098 U	0.012 U	0.013 U	0.025	0.013 U	0.012 U

NOTE:
(1) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit

Table 2 (Continued)
Soil Analytical Results
Post-Remediation Resident 2 and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration					
	SP16-002 9-10	SP16-003 15-16	SB31-002 6-8	SB33-002 5-7	SB33-003 10-12	SP34-002 5-7
TCL Semivolatiles (mg/kg)						
Bis(2-chloroethoxy)methane	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
Bis(2-chloroethyl)ether	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
Bis(2-ethylhexyl)phthalate	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
4-Bromophenyl phenyl ether	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
Butyl benzyl phthalate	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
Carbazole	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
4-Chloro-3-methylphenol	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
4-Chloroaniline	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
2-Chloronaphthalene	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
2-Chlorophenol	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
4-Chlorophenyl phenyl ether	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
Dibenzofuran	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
1,2-Dichlorobenzene	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
1,3-Dichlorobenzene	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
1,4-Dichlorobenzene	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
3,3-Dichlorobenzidine	0.77 U	0.77 U	0.74 U	0.81 U	0.79 U	0.8 U
2,4-Dichlorophenol	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
Diethyl phthalate	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
Dimethyl phthalate	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
Di-n-butyl phthalate	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
2,4-Dimethylphenol	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
4,6-Dinitro-2-methylphenol	1.9 U	1.9 U	1.8 U	2 U	1.9 U	1.9 U
2,4-Dinitrophenol	1.9 U	1.9 U	1.8 U	2 U	1.9 U	1.9 U
2,4-Dinitrotoluene	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
2,6-Dinitrotoluene	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
Di-n-octyl phthalate	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
Hexachlorobenzene	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
Hexachlorobutadiene	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
Hexachlorocyclopentadiene	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
Hexachloroethane	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
Isophorone	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
2-Methylnaphthalene	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
2-Methylphenol	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
4-Methylphenol (m/p-cresols)	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
2-Nitroaniline	1.9 U	1.9 U	1.8 U	2 U	1.9 U	1.9 U
3-Nitroaniline	1.9 U	1.9 U	1.8 U	2 U	1.9 U	1.9 U
4-Nitroaniline	1.9 U	1.9 U	1.8 U	2 U	1.9 U	1.9 U
Nitrobenzene	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
2-Nitrophenol	1.9 U	1.9 U	1.8 U	2 U	1.9 U	1.9 U
4-Nitrophenol	1.9 U	1.9 U	1.8 U	2 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
N-Nitrosodiphenylamine	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
2,2-Oxybis(1-Chloropropane)	0.016 U	0.016 U	0.016 U	0.017 U	0.017 U	0.017 U
Pentachlorophenol	1.9 U	1.9 U	1.8 U	2 U	1.9 U	1.9 U
Phenol	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
1,2,4-Trichlorobenzene	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U
2,4,5-Trichlorophenol	0.77 U	0.77 U	0.74 U	0.81 U	0.79 U	0.8 U
2,4,6-Trichlorophenol	0.39 U	0.39 U	0.37 U	0.4 U	0.39 U	0.4 U

NOTE:
(1) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

Table 2 (Continued)
Soil Analytical Results
Post-Remediation Resident 2 and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration					
	SP16-002 9-10	SP16-003 15-16	SB31-002 6-8	SB33-002 5-7	SB33-003 10-12	SP34-002 5-7
PAHs (mg/kg)						
Acenaphthene	0.029 U	0.029 U	0.028 U	0.031 U	0.03 U	0.12
Acenaphthylene	0.029 U	0.029 U	0.029	0.031 U	0.03 U	0.086
Anthracene	0.029 U	0.029 U	0.047	0.031 U	0.03 U	0.17
Benzo(a)anthracene	0.029 U	0.029 U	0.028 U	0.031 U	0.03 U	0.094
Benzo(b)fluoranthene	0.029 U	0.029 U	0.028 U	0.031 U	0.03 U	0.13
Benzo(k)fluoranthene	0.029 U	0.029 U	0.028 U	0.031 U	0.03 U	0.14
Benzo(g,h,i)perylene	0.029 U	0.029 U	0.028 U	0.031 U	0.03 U	0.36
Benzo(a)pyrene	0.029 U	0.029 U	0.028 U	0.031 U	0.03 U	0.14
Chrysene	0.029 U	0.029 U	0.075	0.031 U	0.041	0.39
Dibenzo(a,h)anthracene	0.029 U	0.029 U	0.028 U	0.031 U	0.03 U	0.11
Fluoranthene	0.029 U	0.029 U	0.075	0.031 U	0.039	0.33
Fluorene	0.029 U	0.029 U	0.03	0.031 U	0.03 U	0.31
Indeno(1,2,3-cd)pyrene	0.029 U	0.029 U	0.028 U	0.031 U	0.03 U	0.24
Naphthalene	0.029 U	0.029 U	0.11	0.14	0.042	0.03 U
Phenanthrene	0.029 U	0.029 U	0.17	0.076	0.083	0.13
Pyrene	0.029 U	0.029 U	0.13	0.047	0.033	1.2
PCBs (mg/kg)						
Aroclor 1016	0.094 U	0.095 U	0.093 U	0.096 U	0.094 U	0.098 U
Aroclor 1221	0.094 U	0.095 U	0.093 U	0.096 U	0.094 U	0.098 U
Aroclor 1232	0.094 U	0.095 U	0.093 U	0.096 U	0.094 U	0.098 U
Aroclor 1242	0.094 U	0.095 U	0.093 U	0.096 U	0.094 U	0.098 U
Aroclor 1248	0.094 U	0.095 U	0.093 U	0.096 U	0.094 U	0.098 U
Aroclor 1254	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U
Aroclor 1260	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U
Priority Pollutant Metals and Total Cyanide (mg/kg)						
Antimony	1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.2 UJ
Arsenic	12 J	9.6 J	12 J	5.1 J	17 J	7.5 J
Barium	79 J	84 J	31 J	97 J	63 J	100 J
Beryllium	1.1	1.1	0.93	1.2	1	1.3
Cadmium	0.52 U	0.56 U	0.55 U	0.59	0.54 U	0.59 U
Chromium	17 J	17 J	19 J	17 J	16 J	21 J
Copper	39 J	28 J	29 J	31 J	55 J	28 J
Lead	21	17	18	17	30	19
Mercury	0.027 U	0.033	0.037	0.046	0.023 U	0.031 U
Nickel	37 J	24 J	31 J	26 J	30 J	33 J
Selenium	1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U
Silver	1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U
Thallium	1.8	1.7	1.2	1.9	2	2.1
Zinc	40 J	33 J	45 J	54 J	43 J	53 J
Total Cyanide	0.25 U	0.28 U	0.27 U	0.34 U	0.29 U	0.31 U

NOTES:
(1) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit
(2) J - Indicates an estimated value.

Table 2 (Continued)
Soil Analytical Results
Post-Remediation Resident 2 and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SP35-002 6-7	SP35-003 12-13	SP37-002 8-9	SP37-003 12-13	SP40-002 7-8
TCL Volatiles (mg/kg)					
Acetone	0.13	0.042 U	0.082	0.066 J	0.071
Benzene	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
Bromodichloromethane	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
Bromoform	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
Bromomethane	0.023 U	0.017 U	0.02 U	0.023 U	0.02 U
2-Butanone	0.027	0.017 U	0.02 U	0.023 U	0.02 U
Carbon Disulfide	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
Carbon Tetrachloride	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
Chlorobenzene	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
Chloroethane	0.023 U	0.017 U	0.02 U	0.023 U	0.02 U
Chloroform	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
Chloromethane	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
Dibromochloromethane	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
1,1-Dichloroethane	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
1,2-Dichloroethane	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
1,1-Dichloroethene	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
cis-1,2-Dichloroethene	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
trans-1,2-Dichloroethene	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
1,2-Dichloropropane	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
cis-1,3-Dichloropropene	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
trans-1,3-Dichloropropene	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
Ethylbenzene	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
2-Hexanone	0.023 U	0.017 U	0.02 U	0.023 U	0.02 U
4-Methyl-2-Pentanone	0.023 U	0.017 U	0.02 U	0.023 U	0.02 U
Methylene Chloride	0.023 U	0.017 U	0.02 U	0.023 U	0.02 U
Styrene	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
1,1,2,2-Tetrachloroethane	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
Tetrachloroethene	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
Toluene	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
1,1,1-Trichloroethane	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
1,1,2-Trichloroethane	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
Trichloroethene	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
Vinyl Chloride	0.023 U	0.017 U	0.02 U	0.023 U	0.02 U
m,p-Xylene	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U
o-Xylene	0.012 U	0.0084 U	0.0099 U	0.012 U	0.01 U

NOTE:
(1) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit
(2) J - Indicates an estimated value

Table 2 (Continued)
Soil Analytical Results
Post-Remediation Resident 2 and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SP35-002 6-7	SP35-003 12-13	SP37-002 8-9	SP37-003 12-13	SP40-002 7-8
TCL Semivolatiles (mg/kg)					
Bis(2-chloroethoxy)methane	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
Bis(2-chloroethyl)ether	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
Bis(2-ethylhexyl)phthalate	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
4-Bromophenyl phenyl ether	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
Butyl benzyl phthalate	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
Carbazole	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
4-Chloro-3-methylphenol	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
4-Chloroaniline	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
2-Chloronaphthalene	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
2-Chlorophenol	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
4-Chlorophenyl phenyl ether	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
Dibenzofuran	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
1,2-Dichlorobenzene	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
1,3-Dichlorobenzene	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
1,4-Dichlorobenzene	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
3,3-Dichlorobenzidine	0.79 U	0.77 U	0.77 U	0.75 U	0.77 U
2,4-Dichlorophenol	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
Diethyl phthalate	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
Dimethyl phthalate	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
Di-n-butyl phthalate	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
2,4-Dimethylphenol	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
4,6-Dinitro-2-methylphenol	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrophenol	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrotoluene	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
2,6-Dinitrotoluene	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
Di-n-octyl phthalate	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
Hexachlorobenzene	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
Hexachlorobutadiene	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
Hexachlorocyclopentadiene	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
Hexachloroethane	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
Isophorone	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
2-Methylnaphthalene	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
2-Methylphenol	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
4-Methylphenol (m/p-cresols)	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
2-Nitroaniline	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
3-Nitroaniline	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
4-Nitroaniline	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Nitrobenzene	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
2-Nitrophenol	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
4-Nitrophenol	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
N-Nitrosodi-n-propylamine	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
N-Nitrosodiphenylamine	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
2,2-Oxybis(1-Chloropropane)	0.017 U	0.016 U	0.016 U	0.016 U	0.016 U
Pentachlorophenol	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Phenol	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
1,2,4-Trichlorobenzene	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U
2,4,5-Trichlorophenol	0.79 U	0.77 U	0.77 U	0.75 U	0.77 U
2,4,6-Trichlorophenol	0.39 U	0.39 U	0.39 U	0.38 U	0.39 U

NOTE:
(1) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit

Table 2 (Continued)
Soil Analytical Results
Post-Remediation Resident 2 and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration				
	SP35-002 6-7	SP35-003 12-13	SP37-002 8-9	SP37-003 12-13	SP40-002 7-8
PAHs (mg/kg)					
Acenaphthene	0.03 U	0.029 U	0.029 U	0.028 U	0.029 U
Acenaphthylene	0.03 U	0.029 U	0.029 U	0.028 U	0.029 U
Anthracene	0.03 U	0.029 U	0.029 U	0.028 U	0.029 U
Benzo(a)anthracene	0.064	0.029 U	0.029 U	0.028 U	0.029 U
Benzo(b)fluoranthene	0.041	0.029 U	0.029 U	0.028 U	0.029 U
Benzo(k)fluoranthene	0.056	0.029 U	0.029 U	0.028 U	0.029 U
Benzo(g,h,i)perylene	0.037	0.029 U	0.029 U	0.028 U	0.029 U
Benzo(a)pyrene	0.072	0.029 U	0.029 U	0.028 U	0.029 U
Chrysene	0.066	0.029 U	0.029 U	0.028 U	0.029 U
Dibenzo(a,h)anthracene	0.03 U	0.029 U	0.029 U	0.028 U	0.029 U
Fluoranthene	0.074	0.029 U	0.029 U	0.028 U	0.029 U
Fluorene	0.03 U	0.029 U	0.029 U	0.028 U	0.029 U
Indeno(1,2,3-cd)pyrene	0.036	0.029 U	0.029 U	0.028 U	0.029 U
Naphthalene	0.03 U	0.029 U	0.056	0.028 U	0.029 U
Phenanthrene	0.03 U	0.029 U	0.029 U	0.028 U	0.029 U
Pyrene	0.074	0.029 U	0.029 U	0.028 U	0.029 U
PCBs (mg/kg)					
Aroclor 1016	0.095 U	0.095 U	0.092 U	0.092 U	0.093 U
Aroclor 1221	0.095 U	0.095 U	0.092 U	0.092 U	0.093 U
Aroclor 1232	0.095 U	0.095 U	0.092 U	0.092 U	0.093 U
Aroclor 1242	0.095 U	0.095 U	0.092 U	0.092 U	0.093 U
Aroclor 1248	0.095 U	0.095 U	0.092 U	0.092 U	0.093 U
Aroclor 1254	0.19 U	0.19 U	0.18 U	0.18 U	0.19 U
Aroclor 1260	0.19 U	0.19 U	0.18 U	0.18 U	0.19 U
Priority Pollutant Metals and Total Cyanide (mg/kg)					
Antimony	1.1 UJ	1.1 UJ	0.97 UJ	1.2 UJ	1.1 UJ
Arsenic	5.8 J	12 J	15 J	7.7 J	10 J
Barium	98 J	89 J	98 J	85 J	88 J
Beryllium	0.83	1.1	1.2	1.1	1.1
Cadmium	0.56 U	0.56 U	0.53	0.59 U	0.56 U
Chromium	11 J	20 J	20 J	19 J	16 J
Copper	11 J	30 J	38 J	25 J	33 J
Lead	36	25	22	17	19
Mercury	0.14	0.024 U	0.026 U	0.029 U	0.029 U
Nickel	12 J	35 J	38 J	25 J	36 J
Selenium	1.1 U	1.1 U	0.97 U	1.2 U	1.1 U
Silver	1.1 U	1.1 U	0.97 U	1.2 U	1.1 U
Thallium	2	2.2	2	1.8	2.2
Zinc	40 J	49 J	46 J	37 J	52 J
Total Cyanide	0.29 U	0.24 U	0.25 U	0.31 U	0.32 U

NOTES:
(1) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit
(2) J - Indicates an estimated value

Table 2 (Continued)
Soil Analytical Results
Post-Remediation Resident 2 and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration			
	SP40-003 14-15	SP43-003 11-12	SP44-002 6-7	SP44-003 12-13
TCL Volatiles (mg/kg)				
Acetone	0.043 U	0.041 U	0.082	0.069 U
Benzene	0.0087 U	0.0083 U	0.0089 U	0.014 U
Bromodichloromethane	0.0087 U	0.0083 U	0.0089 U	0.014 U
Bromoform	0.0087 U	0.0083 U	0.0089 U	0.014 U
Bromomethane	0.017 U	0.017 U	0.018 U	0.028 U
2-Butanone	0.017 U	0.017 U	0.018 U	0.028 U
Carbon Disulfide	0.0087 U	0.0083 U	0.0089 U	0.014 U
Carbon Tetrachloride	0.0087 U	0.0083 U	0.0089 U	0.014 U
Chlorobenzene	0.0087 U	0.0083 U	0.0089 U	0.014 U
Chloroethane	0.017 U	0.017 U	0.018 U	0.028 U
Chloroform	0.0087 U	0.0083 U	0.0089 U	0.014 U
Chloromethane	0.0087 U	0.0083 U	0.0089 U	0.014 U
Dibromochloromethane	0.0087 U	0.0083 U	0.0089 U	0.014 U
1,1-Dichloroethane	0.0087 U	0.0083 U	0.0089 U	0.014 U
1,2-Dichloroethane	0.0087 U	0.0083 U	0.0089 U	0.014 U
1,1-Dichloroethene	0.0087 U	0.0083 U	0.0089 U	0.014 U
cis-1,2-Dichloroethene	0.0087 U	0.0083 U	0.0089 U	0.014 U
trans-1,2-Dichloroethene	0.0087 U	0.0083 U	0.0089 U	0.014 U
1,2-Dichloropropane	0.0087 U	0.0083 U	0.0089 U	0.014 U
cis-1,3-Dichloropropene	0.0087 U	0.0083 U	0.0089 U	0.014 U
trans-1,3-Dichloropropene	0.0087 U	0.0083 U	0.0089 U	0.014 U
Ethylbenzene	0.0087 U	0.0083 U	0.0089 U	0.014 U
2-Hexanone	0.017 U	0.017 U	0.018 U	0.028 U
4-Methyl-2-Pentanone	0.017 U	0.017 U	0.018 U	0.028 U
Methylene Chloride	0.017 U	0.017 U	0.018 U	0.028 U
Styrene	0.0087 U	0.0083 U	0.0089 U	0.014 U
1,1,2,2-Tetrachloroethane	0.0087 U	0.0083 U	0.0089 U	0.014 U
Tetrachloroethene	0.0087 U	0.0083 U	0.0089 U	0.014 U
Toluene	0.0087 U	0.0083 U	0.0089 U	0.014 U
1,1,1-Trichloroethane	0.0087 U	0.0083 U	0.0089 U	0.014 U
1,1,2-Trichloroethane	0.0087 U	0.0083 U	0.0089 U	0.014 U
Trichloroethene	0.0087 U	0.0083 U	0.0089 U	0.014 U
Vinyl Chloride	0.017 U	0.017 U	0.018 U	0.028 U
m,p-Xylene	0.0087 U	0.0083 U	0.0089 U	0.014 U
o-Xylene	0.0087 U	0.0083 U	0.0089 U	0.014 U

NOTE:
(1) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit

Table 2 (Continued)
Soil Analytical Results
Post-Remediation Resident 2 and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration			
	SP40-003 14-15	SP43-003 11-12	SP44-002 6-7	SP44-003 12-13
TCL Semivolatiles (mg/kg)				
Bis(2-chloroethoxy)methane	0.39 U	0.39 U	0.4 U	0.39 U
Bis(2-chloroethyl)ether	0.39 U	0.39 U	0.4 U	0.39 U
Bis(2-ethylhexyl)phthalate	0.39 U	0.39 U	0.4 U	0.39 U
4-Bromophenyl phenyl ether	0.39 U	0.39 U	0.4 U	0.39 U
Butyl benzyl phthalate	0.39 U	0.39 U	0.4 U	0.39 U
Carbazole	0.39 U	0.39 U	0.4 U	0.39 U
4-Chloro-3-methylphenol	0.39 U	0.39 U	0.4 U	0.39 U
4-Chloroaniline	0.39 U	0.39 U	0.4 U	0.39 U
2-Chloronaphthalene	0.39 U	0.39 U	0.4 U	0.39 U
2-Chlorophenol	0.39 U	0.39 U	0.4 U	0.39 U
4-Chlorophenyl phenyl ether	0.39 U	0.39 U	0.4 U	0.39 U
Dibenzofuran	0.39 U	0.39 U	0.4 U	0.39 U
1,2-Dichlorobenzene	0.39 U	0.39 U	0.4 U	0.39 U
1,3-Dichlorobenzene	0.39 U	0.39 U	0.4 U	0.39 U
1,4-Dichlorobenzene	0.39 U	0.39 U	0.4 U	0.39 U
3,3-Dichlorobenzidine	0.77 U	0.78 U	0.79 U	0.77 U
2,4-Dichlorophenol	0.39 U	0.39 U	0.4 U	0.39 U
Diethyl phthalate	0.39 U	0.39 U	0.4 U	0.39 U
Dimethyl phthalate	0.39 U	0.39 U	0.4 U	0.39 U
Di-n-butyl phthalate	0.39 U	0.39 U	0.4 U	0.39 U
2,4-Dimethylphenol	0.39 U	0.39 U	0.4 U	0.39 U
4,6-Dinitro-2-methylphenol	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrophenol	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	0.39 U	0.39 U	0.4 U	0.39 U
2,6-Dinitrotoluene	0.39 U	0.39 U	0.4 U	0.39 U
Di-n-octyl phthalate	0.39 U	0.39 U	0.4 U	0.39 U
Hexachlorobenzene	0.39 U	0.39 U	0.4 U	0.39 U
Hexachlorobutadiene	0.39 U	0.39 U	0.4 U	0.39 U
Hexachlorocyclopentadiene	0.39 U	0.39 U	0.4 U	0.39 U
Hexachloroethane	0.39 U	0.39 U	0.4 U	0.39 U
Isophorone	0.39 U	0.39 U	0.4 U	0.39 U
2-Methylnaphthalene	0.39 U	0.39 U	0.4 U	0.39 U
2-Methylphenol	0.39 U	0.39 U	0.4 U	0.39 U
4-Methylphenol (m/p-cresols)	0.39 U	0.39 U	0.4 U	0.39 U
2-Nitroaniline	1.9 U	1.9 U	1.9 U	1.9 U
3-Nitroaniline	1.9 U	1.9 U	1.9 U	1.9 U
4-Nitroaniline	1.9 U	1.9 U	1.9 U	1.9 U
Nitrobenzene	0.39 U	0.39 U	0.4 U	0.39 U
2-Nitrophenol	1.9 U	1.9 U	1.9 U	1.9 U
4-Nitrophenol	1.9 U	1.9 U	1.9 U	1.9 U
N-Nitrosodi-n-propylamine	0.39 U	0.39 U	0.4 U	0.39 U
N-Nitrosodiphenylamine	0.39 U	0.39 U	0.4 U	0.39 U
2,2-Oxybis(1-Chloropropane)	0.016 U	0.016 U	0.017 U	0.016 U
Pentachlorophenol	1.9 U	1.9 U	1.9 U	1.9 U
Phenol	0.39 U	0.39 U	0.4 U	0.39 U
1,2,4-Trichlorobenzene	0.39 U	0.39 U	0.4 U	0.39 U
2,4,5-Trichlorophenol	0.77 U	0.78 U	0.79 U	0.77 U
2,4,6-Trichlorophenol	0.39 U	0.39 U	0.4 U	0.39 U

NOTE:
(1) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.

Table 2 (Continued)
Soil Analytical Results
Post-Remediation Resident 2 and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Compound/Analyte	Sample Location and Depth (feet below ground surface)/Concentration			
	SP40-003 14-15	SP43-003 11-12	SP44-002 6-7	SP44-003 12-13
PAHs (mg/kg)				
Acenaphthene	0.029 U	0.029 U	0.03 U	0.029 U
Acenaphthylene	0.029 U	0.029 U	0.03 U	0.029 U
Anthracene	0.029 U	0.029 U	0.03 U	0.029 U
Benzo(a)anthracene	0.029 U	0.029 U	0.03 U	0.029 U
Benzo(b)fluoranthene	0.029 U	0.029 U	0.03 U	0.029 U
Benzo(k)fluoranthene	0.029 U	0.029 U	0.03 U	0.029 U
Benzo(g,h,i)perylene	0.029 U	0.029 U	0.03 U	0.029 U
Benzo(a)pyrene	0.029 U	0.029 U	0.03 U	0.029 U
Chrysene	0.029 U	0.029 U	0.03 U	0.029 U
Dibenzo(a,h)anthracene	0.029 U	0.029 U	0.03 U	0.029 U
Fluoranthene	0.029 U	0.029 U	0.03 U	0.029 U
Fluorene	0.029 U	0.029 U	0.03 U	0.029 U
Indeno(1,2,3-cd)pyrene	0.029 U	0.029 U	0.03 U	0.029 U
Naphthalene	0.029 U	0.029 U	0.03 U	0.029 U
Phenanthrene	0.029 U	0.029 U	0.03 U	0.029 U
Pyrene	0.029 U	0.029 U	0.03 U	0.029 U
PCBs (mg/kg)				
Aroclor 1016	0.094 U	0.097 U	0.096 U	0.093 U
Aroclor 1221	0.094 U	0.097 U	0.096 U	0.093 U
Aroclor 1232	0.094 U	0.097 U	0.096 U	0.093 U
Aroclor 1242	0.094 U	0.097 U	0.096 U	0.093 U
Aroclor 1248	0.094 U	0.097 U	0.096 U	0.093 U
Aroclor 1254	0.19 U	0.19 U	0.19 U	0.19 U
Aroclor 1260	0.19 U	0.19 U	0.19 U	0.19 U
Priority Pollutant Metals and Total Cyanide (mg/kg)				
Antimony	1 UJ	1 UJ	1.1 UJ	1.2 UJ
Arsenic	8.3 J	9 J	13 J	9.3 J
Barium	87 J	91 J	79 J	94 J
Beryllium	1.1	1.1	1.2	1.2
Cadmium	0.52 U	0.5 U	0.57 U	0.58 U
Chromium	19 J	21 J	20 J	20 J
Copper	28 J	30 J	31 J	33 J
Lead	17	19	19	20
Mercury	0.028 U	0.03 U	0.03 U	0.026 U
Nickel	28 J	33 J	39 J	35 J
Selenium	1 U	1 U	1.1 U	1.2 U
Silver	1 U	1 U	1.1 U	1.2 U
Thallium	1.9	1.9	1.8	2.3
Zinc	45 J	46 J	52 J	45 J
Total Cyanide	0.27 U	0.27 U	0.32 U	0.31 U

NOTES:
(1) U - Indicates compound/analyte was analyzed for but not detected; the associated value is the sample reporting limit.
(2) J - Indicates an estimated value.

Table 3
Occurrence, Distribution and Selection of Chemicals of Potential Concern
Post-Remediation Resident 1 and Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface/Subsurface soil*
Exposure Point:	Surface/Subsurface soil*

CAS Number	Chemical	Minimum (2) Concentration	Minimum Qualifier	Maximum (2) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Back-ground Value	Screening Toxicity Value	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for (3) Contaminant Deletion or Selection
67-64-1	Acetone	0.071	J	0.32		mg/kg	SP03-002	9 / 11	0.041 - 0.064						YES	FD
71-43-2	Benzene	0.015		0.015		mg/kg	SP02-002	1 / 11	0.0082 - 0.017						YES	FD
75-27-4	Bromodichloromethane					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
75-25-2	Bromoform					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
74-83-9	Bromomethane					mg/kg		0 / 11	0.016 - 0.034						NO	ND
78-93-3	2-Butanone	0.02		0.072		mg/kg	SP03-002	4 / 11	0.016 - 0.026						YES	FD
75-15-0	Carbon Disulfide					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
56-23-5	Carbon Tetrachloride					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
108-90-7	Chlorobenzene					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
75-00-3	Chloroethane					mg/kg		0 / 11	0.016 - 0.034						NO	ND
67-66-3	Chloroform					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
74-87-3	Chloromethane					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
124-48-1	Dibromochloromethane					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
75-34-3	1,1-Dichloroethane					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
107-06-2	1,2-Dichloroethane					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
75-35-4	1,1-Dichloroethene					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
156-59-2	cis-1,2-Dichloroethene					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
156-60-5	trans-1,2-Dichloroethene					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
78-87-5	1,2-Dichloropropane					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
1006-01-5	cis-1,3-Dichloropropene					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
10061-02-6	trans-1,3-Dichloropropene					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
100-41-4	Ethylbenzene	0.049		0.049		mg/kg	SP02-002	1 / 11	0.0082 - 0.017						YES	FD
591-78-6	2-Hexanone					mg/kg		0 / 11	0.016 - 0.034						NO	ND
75-09-2	4-Methyl-2-Pentanone					mg/kg		0 / 11	0.016 - 0.034						NO	ND
75-09-2	Methylene Chloride					mg/kg		0 / 11	0.016 - 0.034						NO	ND

Notes:

(1) * For future resident scenario, subsurface soil is assumed potentially to be redistributed to the surface.

(2) Minimum/maximum detected concentration.

(3) Rationale Codes — Selection Reason: Frequent Detection (FD); Deletion Reason: Not Detected (ND)

Definitions: ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered; COPC = Chemical of Potential Concern; J = Estimated value

Table 3 (Continued)
Occurrence, Distribution and Selection of Chemicals of Potential Concern
Post-Remediation Resident 1 and Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface/Subsurface soil*
Exposure Point:	Surface/Subsurface soil*

CAS Number	Chemical	Minimum (2) Concentration	Minimum Qualifier	Maximum (2) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for (3) Contaminant Deletion or Selection
100-42-5	Styrene					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
79-34-5	1,1,2,2-Tetrachloroethane					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
127-18-4	Tetrachloroethene					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
108-88-3	Toluene					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
71-55-6	1,1,1-Trichloroethane					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
79-00-5	1,1,2-Trichloroethane					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
79-01-6	Trichloroethene					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
75-01-4	Vinyl Chloride					mg/kg		0 / 11	0.016 - 0.034						NO	ND
108-38-3, 106-42-3	m,p-Xylene					mg/kg		0 / 11	0.0081 - 0.017						NO	ND
95-47-6	o-Xylene	0.012		0.025		mg/kg	SB33-002	2 / 11	0.0082 - 0.017						YES	FD
111-91-1	Bis(2-chloroethoxy)methane					mg/kg		0 / 11	0.37 - 0.44						NO	ND
111-44-4	Bis(2-chloroethyl)ether					mg/kg		0 / 11	0.37 - 0.44						NO	ND
117-81-7	Bis(2-ethylhexyl)phthalate	0.45		0.45		mg/kg	SB01-002	1 / 11	0.37 - 0.44						YES	FD
101-55-3	4-Bromophenyl phenyl ether					mg/kg		0 / 11	0.37 - 0.44						NO	ND
85-68-7	Butyl benzyl phthalate					mg/kg		0 / 11	0.37 - 0.44						NO	ND
86-74-8	Carbazole	0.47		0.47		mg/kg	SB02-002	1 / 11	0.37 - 0.44						YES	FD
106-47-8	4-Chloro-3-methylphenol					mg/kg		0 / 11	0.37 - 0.44						NO	ND
35421-08-0	4-Chloroaniline					mg/kg		0 / 11	0.37 - 0.44						NO	ND
91-58-7	2-Chloronaphthalene					mg/kg		0 / 11	0.37 - 0.44						NO	ND
95-57-8	2-Chlorophenol					mg/kg		0 / 11	0.37 - 0.44						NO	ND
7005-72-3	4-Chlorophenyl phenyl ether					mg/kg		0 / 11	0.37 - 0.44						NO	ND
132-64-9	Dibenzofuran					mg/kg		0 / 11	0.37 - 0.44						NO	ND
95-50-1	1,2-Dichlorobenzene					mg/kg		0 / 11	0.37 - 0.44						NO	ND
541-73-1	1,3-Dichlorobenzene					mg/kg		0 / 11	0.37 - 0.44						NO	ND
106-46-7	1,4-Dichlorobenzene					mg/kg		0 / 11	0.37 - 0.44						NO	ND

Notes:
(1) * For future resident scenario, subsurface soil is assumed potentially to be redistributed to the surface.
(2) Minimum/maximum detected concentration.
(3) Rationale Codes — Selection Reason: Frequent Detection (FD); Deletion Reason: Not Detected (ND)

Definitions: ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
COPC = Chemical of Potential Concern

Table 3 (Continued)
Occurrence, Distribution and Selection of Chemicals of Potential Concern
Post-Remediation Resident 1 and Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface/Subsurface soil*
Exposure Point:	Surface/Subsurface soil*

CAS Number	Chemical	Minimum (2) Concentration	Minimum Qualifier	Maximum (2) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for (3) Contaminant Deletion or Selection
91-94-1	3,3'-Dichlorobenzidine					mg/kg		0 / 11	0.74 - 0.89						NO	ND
120-83-2	2,4-Dichlorophenol					mg/kg		0 / 11	0.37 - 0.44						NO	ND
84-66-2	Diethyl phthalate					mg/kg		0 / 11	0.37 - 0.44						NO	ND
84-74-2	Dimethyl phthalate					mg/kg		0 / 11	0.37 - 0.44						NO	ND
105-67-9	Di-n-butyl phthalate					mg/kg		0 / 11	0.37 - 0.44						NO	ND
131-11-3	2,4-Dimethylphenol					mg/kg		0 / 11	0.37 - 0.44						NO	ND
534-52-1	4,6-Dinitro-2-methylphenol					mg/kg		0 / 11	1.8 - 2.1						NO	ND
51-28-5	2,4-Dinitrophenol					mg/kg		0 / 11	1.8 - 2.1						NO	ND
121-14-2	2,4-Dinitrotoluene					mg/kg		0 / 11	0.37 - 0.44						NO	ND
606-20-2	2,6-Dinitrotoluene					mg/kg		0 / 11	0.37 - 0.44						NO	ND
117-84-0	Di-n-octyl phthalate					mg/kg		0 / 11	0.37 - 0.44						NO	ND
118-74-1	Hexachlorobenzene					mg/kg		0 / 11	0.37 - 0.44						NO	ND
87-68-3	Hexachlorobutadiene					mg/kg		0 / 11	0.37 - 0.44						NO	ND
77-47-4	Hexachlorocyclopentadiene					mg/kg		0 / 11	0.37 - 0.44						NO	ND
67-72-1	Hexachloroethane					mg/kg		0 / 11	0.37 - 0.44						NO	ND
78-59-1	Isophorone					mg/kg		0 / 11	0.37 - 0.44						NO	ND
91-57-6	2-Methylnaphthalene					mg/kg		0 / 11	0.37 - 0.44						NO	ND
95-48-7	2-Methylphenol					mg/kg		0 / 11	0.37 - 0.44						NO	ND
61379-65-5	4-Methylphenol (m/p-cresols)					mg/kg		0 / 11	0.37 - 0.44						NO	ND
88-74-4	2-Nitroaniline					mg/kg		0 / 11	1.8 - 2.1						NO	ND
99-09-2	3-Nitroaniline					mg/kg		0 / 11	1.8 - 2.1						NO	ND
100-01-6	4-Nitroaniline					mg/kg		0 / 11	1.8 - 2.1						NO	ND
98-95-3	Nitrobenzene					mg/kg		0 / 11	0.37 - 0.44						NO	ND
88-75-5	2-Nitrophenol					mg/kg		0 / 11	1.8 - 2.1						NO	ND
100-02-7	4-Nitrophenol					mg/kg		0 / 11	1.8 - 2.1						NO	ND

Notes:
(1) * For future resident scenario, subsurface soil is assumed potentially to be redistributed to the surface.
(2) Minimum/maximum detected concentration.
(3) Rationale Codes — Selection Reason: Frequent Detection (FD); Deletion Reason: Not Detected (ND)

Definitions: ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
COPC = Chemical of Potential Concern

Table 3 (Continued)
Occurrence, Distribution and Selection of Chemicals of Potential Concern
Post-Remediation Resident 1 and Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface/Subsurface soil*
Exposure Point:	Surface/Subsurface soil*

CAS Number	Chemical	Minimum (2) Concentration	Minimum Qualifier	Maximum (2) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for (3) Contaminant Deletion or Selection
621-64-7	N-Nitrosodi-n-propylamine					mg/kg		0 / 11	0.37 - 0.44						NO	ND
86-30-6	N-Nitrosodiphenylamine					mg/kg		0 / 11	0.37 - 0.44						NO	ND
108-60-1	2, 2'-Oxybis(1-Chloropropane)					mg/kg		0 / 11	0.016 - 0.019						NO	ND
108-60-1	Pentachlorophenol					mg/kg		0 / 11	1.8 - 2.1						NO	ND
87-86-5	Phenol					mg/kg		0 / 11	0.37 - 0.44						NO	ND
120-82-1	1,2,4-Trichlorobenzene					mg/kg		0 / 11	0.37 - 0.44						NO	ND
95-95-4	2,4,5-Trichlorophenol					mg/kg		0 / 11	0.74 - 0.89						NO	ND
88-06-2	2,4,6-Trichlorophenol					mg/kg		0 / 11	0.37 - 0.44						NO	ND
83-32-9	Acenaphthene	0.12		0.19		mg/kg	SP02-002	2 / 11	0.028 - 0.034						YES	FD
208-96-8	Acenaphthylene	0.029		0.13		mg/kg	SP02-002	3 / 11	0.029 - 0.034						YES	FD
120-12-7	Anthracene	0.047		0.3		mg/kg	SP02-002	4 / 11	0.029 - 0.034						YES	FD
56-55-3	Benzo(a)anthracene	0.064		0.43		mg/kg	SP02-002	4 / 11	0.028 - 0.034						YES	FD
207-08-9	Benzo(b)fluoranthene	0.041		0.36		mg/kg	SP02-002	4 / 11	0.028 - 0.034						YES	FD
50-32-8	Benzo(k)fluoranthene	0.056		0.39		mg/kg	SP02-002	4 / 11	0.028 - 0.034						YES	FD
191-24-2	Benzo(g,h,i)perylene	0.037		0.48		mg/kg	SP02-002	4 / 11	0.028 - 0.034						YES	FD
205-99-2	Benzo(a)pyrene	0.072		0.52		mg/kg	SP02-002	4 / 11	0.028 - 0.034						YES	FD
218-01-9	Chrysene	0.066		0.67		mg/kg	SB01-002	5 / 11	0.029 - 0.034						YES	FD
53-70-3	Dibenzo(a,h)anthracene	0.099		0.13		mg/kg	SP02-002	3 / 11	0.028 - 0.034						YES	FD
206-44-0	Fluoranthene	0.074		1.1		mg/kg	SB01-002	5 / 11	0.029 - 0.034						YES	FD
86-73-7	Fluorene	0.03		0.31		mg/kg	SP34-002	3 / 11	0.029 - 0.034						YES	FD
193-39-5	Indeno(1,2,3-cd)pyrene	0.036		0.35		mg/kg	SP02-002	4 / 11	0.028 - 0.034						YES	FD
91-20-3	Naphthalene	0.044		0.28		mg/kg	SP02-002	5 / 11	0.029 - 0.034						YES	FD
85-01-8	Phenanthrene	0.076		1		mg/kg	SP02-002	5 / 11	0.029 - 0.034						YES	FD
129-00-0	Pyrene	0.047		1.2		mg/kg	SB01-002	6 / 11	0.029 - 0.034						YES	FD

Notes:
(1) * For future resident scenario, subsurface soil is assumed potentially to be redistributed to the surface.
(2) Minimum/maximum detected concentration.
(3) Rationale Codes — Selection Reason: Frequent Detection (FD); Deletion Reason: Not Detected (ND)

Definitions: ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
COPC = Chemical of Potential Concern

Table 3 (Continued)
Occurrence, Distribution and Selection of Chemicals of Potential Concern
Post-Remediation Resident 1 and Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface/Subsurface soil*
Exposure Point:	Surface/Subsurface soil*

CAS Number	Chemical	Minimum (2) Concentration	Minimum Qualifier	Maximum (2) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Back-ground Value (3)	Screening Toxicity Value	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for (4) Contaminant Deletion or Selection
1267-41-12	Aroclor 1016					mg/kg		0 / 11	0.09 - 0.1						NO	ND
1110-42-82	Aroclor 1221					mg/kg		0 / 11	0.09 - 0.1						NO	ND
1114-11-65	Aroclor 1232					mg/kg		0 / 11	0.09 - 0.1						NO	ND
5346-92-19	Aroclor 1242					mg/kg		0 / 11	0.09 - 0.1						NO	ND
1267-22-96	Aroclor 1248					mg/kg		0 / 11	0.09 - 0.1						NO	ND
1109-76-91	Aroclor 1254					mg/kg		0 / 11	0.18 - 0.2						NO	ND
1109-69-25	Aroclor 1260					mg/kg		0 / 11	0.18 - 0.2						NO	ND
7440-36-0	Antimony					mg/kg		0 / 11	0.97 - 1.2						NO	ND
7440-38-2	Arsenic	2.5		15	J	mg/kg	SP37-002	11 / 11	0.49 - 0.63		13.0				YES	FD/ASL
7440-39-3	Barium	19		100	J	mg/kg	SP34-002	11 / 11	0.97 - 1.3		110				NO	BSL
7440-41-7	Beryllium	0.63		1.3		mg/kg	SP03-002	11 / 11	0.52 - 1.3		0.59				YES	FD/ASL
7440-43-9	Cadmium	0.53		0.59		mg/kg	SB33-002	3 / 11	0.52 - 0.6		0.6				NO	BSL
7440-47-3	Chromium	6.9		21	J	mg/kg	SP34-002	11 / 11	0.97 - 1.3		16.2				YES	FD/ASL
7440-50-8	Copper	8.9		39	J	mg/kg	SP16-002	11 / 11	0.97 - 1.3		19.6				YES	FD/ASL
7439-92-1	Lead	17		41		mg/kg	SB01-002	11 / 11	0.49 - 1.2		36.0				YES	FD/ASL
7439-97-6	Mercury	0.035		0.28		mg/kg	SB01-002	5 / 11	0.026 - 0.031		0.06				YES	FD/ASL
7440-02-0	Nickel	5.5		39	J	mg/kg	SP44-002	11 / 11	0.97 - 1.3		18.0				YES	FD/ASL
7782-49-2	Selenium					mg/kg		0 / 11	0.97 - 1.2		0.48				NO	ND
7440-22-4	Silver					mg/kg		0 / 11	0.97 - 1.2		0.55				NO	ND
7440-28-0	Thallium	1.2		4.2		mg/kg	SB01-002	10 / 11	1 - 1		0.32				YES	FD/ASL
7440-66-6	Zinc	23		70	J	mg/kg	SB38-001	11 / 11	4.9 - 6.3		95.0				NO	BSL
57-12-5	Total Cyanide					mg/kg		0 / 11	0.25 - 0.34		0.51				NO	ND

Notes:

(1) * For future resident scenario, subsurface soil is assumed potentially to be redistributed to the surface.

(2) Minimum/maximum detected concentration.

(3) Metropolitan Stastical Areas (MSA) background values for metals were obtained from Illinois Tiered Approach to Corrective Action Objectives (TACO) (IAC 2002).

(4) Rationale Codes

Selection Reason: Frequent Detection (FD)
Above Screening Level (ASL)

Deletion Reason: Not Detected (ND)
Below Screening Level (BSL)

Definitions: ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
COPC = Chemical of Potential Concern
J = Estimated value

Table 4
Occurrence, Distribution and Selection of Chemicals of Potential Concern
Post-Remediation Resident 2 and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface/Subsurface soil*
Exposure Point:	Surface/Subsurface soil*

CAS Number	Chemical	Minimum (2) Concentration	Minimum Qualifier	Maximum (2) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Back-Ground Value	Screening Toxicity Value	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for (3) Contaminant Deletion or Selection
67-64-1	Acetone	0.066	J	0.32		mg/kg	SP03-002	11 / 21	0.041 - 0.069						YES	FD
71-43-2	Benzene	0.015		0.015		mg/kg	SP02-002	1 / 21	0.0082 - 0.017						YES	FD
75-27-4	Bromodichloromethane					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
75-25-2	Bromoform					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
74-83-9	Bromomethane					mg/kg		0 / 21	0.016 - 0.034						NO	ND
78-93-3	2-Butanone	0.02		0.072		mg/kg	SP03-002	4 / 21	0.016 - 0.034						YES	FD
75-15-0	Carbon disulfide					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
56-23-5	Carbon tetrachloride					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
108-90-7	Chlorobenzene					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
75-00-3	Chloroethane					mg/kg		0 / 21	0.016 - 0.034						NO	ND
67-66-3	Chloroform					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
74-87-3	Chloromethane					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
124-48-1	Dibromochloromethane					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
75-34-3	1,1-Dichloroethane					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
107-06-2	1,2-Dichloroethane					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
75-35-4	1,1-Dichloroethene					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
156-59-2	cis-1,2-Dichloroethene					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
156-60-5	trans-1,2-Dichloroethene					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
78-87-5	1,2-Dichloropropane					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
1006-01-5	cis-1,3-Dichloropropene					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
10061-02-6	trans-1,3-Dichloropropene					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
100-41-4	Ethylbenzene	0.049		0.049		mg/kg	SP02-002	1 / 21	0.0082 - 0.017						NO	IFD
591-78-6	2-Hexanone					mg/kg		0 / 21	0.016 - 0.034						NO	ND
75-09-2	4-Methyl-2-pentanone					mg/kg		0 / 21	0.016 - 0.034						NO	ND

NOTES:

(1) * For future resident scenario, subsurface soil is assumed potentially to be redistributed to the surface.

(2) Minimum/maximum detected concentration.

(3) Rationale Codes

Selection Reason: Frequent Detection (FD)

Deletion Reason: Infrequent Detection (IFD) = FD < 0.05 (USEPA 1989)
Non Detect Data (ND)

Definitions: ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
COPC = Chemical of Potential Concern
J = Estimated Value

Table 4 (Continued)
Occurrence, Distribution and Selection of Chemicals of Potential Concern
Post-Remediation Resident 2 and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface/Subsurface soil*
Exposure Point:	Surface/Subsurface soil*

CAS Number	Chemical	Minimum (2) Concentration	Minimum Qualifier	Maximum (2) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Back-Ground Value	Screening Toxicity Value	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for (3) Contaminant Deletion or Selection
75-09-2	Methylene chloride					mg/kg		0 / 21	0.016 - 0.034						NO	ND
100-42-5	Styrene					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
79-34-5	1,1,2,2-Tetrachloroethane					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
127-18-4	Tetrachloroethene					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
108-88-3	Toluene					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
71-55-6	1,1,1-Trichloroethane					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
79-00-5	1,1,2-Trichloroethane					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
79-01-6	Trichloroethene					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
1330-20-7	Vinyl Chloride					mg/kg		0 / 21	0.016 - 0.034						NO	ND
1330-20-7	m,p-Xylene					mg/kg		0 / 21	0.0081 - 0.017						NO	ND
95-47-6	o-Xylene	0.012		0.025		mg/kg	SB33-002	2 / 21	0.0082 - 0.017						YES	FD
111-91-1	Bis(2-chloroethoxy)methane					mg/kg		0 / 21	0.37 - 0.44						NO	ND
111-44-4	Bis(2-chloroethyl)ether					mg/kg		0 / 21	0.37 - 0.44						NO	ND
117-81-7	Bis(2-ethylhexyl)phthalate	0.45		0.45		mg/kg	SB01-002	1 / 21	0.37 - 0.44						NO	IFD
101-55-3	4-Bromophenyl-phenyl ether					mg/kg		0 / 21	0.37 - 0.44						NO	ND
85-68-7	Butyl benzyl phthalate					mg/kg		0 / 21	0.37 - 0.44						NO	ND
86-74-8	Carbazole	0.47		0.47		mg/kg	SP02-002	1 / 21	0.37 - 0.44						NO	IFD
106-47-8	4-Chloro-3-methylphenol					mg/kg		0 / 21	0.37 - 0.44						NO	ND
35421-08-0	4-Chloroaniline					mg/kg		0 / 21	0.37 - 0.44						NO	ND
91-58-7	2-Chloronaphthalene					mg/kg		0 / 21	0.37 - 0.44						NO	ND
95-57-8	2-Chlorophenol					mg/kg		0 / 21	0.37 - 0.44						NO	ND
7005-72-3	4-Chlorophenyl-phenyl ether					mg/kg		0 / 21	0.37 - 0.44						NO	ND
132-64-9	Dibenzofuran					mg/kg		0 / 21	0.37 - 0.44						NO	ND
95-50-1	1,2-Dichlorobenzene					mg/kg		0 / 21	0.37 - 0.44						NO	ND
541-73-1	1,3-Dichlorobenzene					mg/kg		0 / 21	0.37 - 0.44						NO	ND
106-46-7	1,4-Dichlorobenzene					mg/kg		0 / 21	0.37 - 0.44						NO	ND

NOTES:

(1) * For future resident scenario, subsurface soil is assumed potentially to be redistributed to the surface.

(2) Minimum/maximum detected concentration.

(3) Rationale Codes

Selection Reason: Frequent Detection (FD)

Deletion Reason: Infrequent Detection (IFD) = FD < 0.05 (USEPA 1989)
Non Detect Data (ND)

Definitions: ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
COPC = Chemical of Potential Concern

Table 4 (Continued)
Occurrence, Distribution and Selection of Chemicals of Potential Concern
Post-Remediation Resident 2 and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface/Subsurface soil*
Exposure Point:	Surface/Subsurface soil*

CAS Number	Chemical	Minimum (2) Concentration	Minimum Qualifier	Maximum (2) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Back-Ground Value	Screening Toxicity Value	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for (3) Contaminant Deletion or Selection
91-94-1	3,3-Dichlorobenzidine					mg/kg		0 / 21	0.74 - 0.89						NO	ND
120-83-2	2,4-Dichlorophenol					mg/kg		0 / 21	0.37 - 0.44						NO	ND
84-66-2	Diethyl phthalate					mg/kg		0 / 21	0.37 - 0.44						NO	ND
84-74-2	Dimethyl phthalate					mg/kg		0 / 21	0.37 - 0.44						NO	ND
105-67-9	Di-n-butyl phthalate					mg/kg		0 / 21	0.37 - 0.44						NO	ND
131-11-3	2,4-Dimethylphenol					mg/kg		0 / 21	0.37 - 0.44						NO	ND
534-52-1	4,6-Dinitro-2-methylphenol					mg/kg		0 / 21	1.8 - 2.1						NO	ND
51-28-5	2,4-Dinitrophenol					mg/kg		0 / 21	1.8 - 2.1						NO	ND
121-14-2	2,4-Dinitrotoluene					mg/kg		0 / 21	0.37 - 0.44						NO	ND
606-20-2	2,6-Dinitrotoluene					mg/kg		0 / 21	0.37 - 0.44						NO	ND
117-84-0	Di-n-octyl phthalate					mg/kg		0 / 21	0.37 - 0.44						NO	ND
118-74-1	Hexachlorobenzene					mg/kg		0 / 21	0.37 - 0.44						NO	ND
87-68-3	Hexachlorobutadiene					mg/kg		0 / 21	0.37 - 0.44						NO	ND
77-47-4	Hexachlorocyclopentadiene					mg/kg		0 / 21	0.37 - 0.44						NO	ND
67-72-1	Hexachloroethane					mg/kg		0 / 21	0.37 - 0.44						NO	ND
78-59-1	Isophorone					mg/kg		0 / 21	0.37 - 0.44						NO	ND
91-57-6	2-Methylnaphthalene	0.79		0.79		mg/kg	SP13-003	1 / 21	0.37 - 0.44						NO	IFD
95-48-7	2-Methylphenol					mg/kg		0 / 21	0.37 - 0.44						NO	ND
61379-65-5	4-Methylphenol (m/p-cresols)					mg/kg		0 / 21	0.37 - 0.44						NO	ND
88-74-4	2-Nitroaniline					mg/kg		0 / 21	1.8 - 2.1						NO	ND
99-09-2	3-Nitroaniline					mg/kg		0 / 21	1.8 - 2.1						NO	ND
100-01-6	4-Nitroaniline					mg/kg		0 / 21	1.8 - 2.1						NO	ND
98-95-3	Nitrobenzene					mg/kg		0 / 21	0.37 - 0.44						NO	ND
88-75-5	2-Nitrophenol					mg/kg		0 / 21	1.8 - 2.1						NO	ND
100-02-7	4-Nitrophenol					mg/kg		0 / 21	1.8 - 2.1						NO	ND

NOTES:

(1) * For future resident scenario, subsurface soil is assumed potentially to be redistributed to the surface.

(2) Minimum/maximum detected concentration.

(3) Rationale Codes — Selection Reason: Frequent Detection (FD)
Deletion Reason: Infrequent Detection (IFD) = FD < 0.05 (USEPA 1989)
Non Detect Data (ND)

Definitions: ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
COPC = Chemical of Potential Concern

Table 4 (Continued)
Occurrence, Distribution and Selection of Chemicals of Potential Concern
Post-Remediation Resident 2 and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface/Subsurface soil*
Exposure Point:	Surface/Subsurface soil*

CAS Number	Chemical	Minimum (2) Concentration	Minimum Qualifier	Maximum (2) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Back-Ground Value	Screening Toxicity Value	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for (3) Contaminant Deletion or Selection
621-64-7	N-Nitroso-di-n-propylamine					mg/kg		0 / 21	0.37 - 0.44						NO	ND
86-30-6	N-Nitrosodiphenylamine					mg/kg		0 / 21	0.37 - 0.44						NO	ND
540-54-5	2,2-Oxybis(1-Chloropropane)					mg/kg		0 / 21	0.016 - 0.019						NO	ND
108-60-1	Pentachlorophenol					mg/kg		0 / 21	1.8 - 2.1						NO	ND
87-86-5	Phenol					mg/kg		0 / 21	0.37 - 0.44						NO	ND
120-82-1	1,2,4-Trichlorobenzene					mg/kg		0 / 21	0.37 - 0.44						NO	ND
95-95-4	2,4,5-Trichlorophenol					mg/kg		0 / 21	0.74 - 0.89						NO	ND
88-06-2	2,4,6-Trichlorophenol					mg/kg		0 / 21	0.37 - 0.44						NO	ND
83-32-9	Acenaphthene	0.077		0.19		mg/kg	SP02-002	3 / 21	0.028 - 0.034						YES	FD
208-96-8	Acenaphthylene	0.029		0.13		mg/kg	SP02-002	3 / 21	0.028 - 0.034						YES	FD
120-12-7	Anthracene	0.047		0.3		mg/kg	SP02-002	4 / 21	0.028 - 0.034						YES	FD
56-55-3	Benzo(a)anthracene	0.064		0.43		mg/kg	SP02-002	4 / 21	0.028 - 0.034						YES	FD
207-08-9	Benzo(b)fluoranthene	0.041		0.36		mg/kg	SP02-002	4 / 21	0.028 - 0.034						YES	FD
50-32-8	Benzo(k)fluoranthene	0.056		0.39		mg/kg	SP02-002	4 / 21	0.028 - 0.034						YES	FD
191-24-2	Benzo(g,h,i)perylene	0.037		0.48		mg/kg	SP02-002	4 / 21	0.028 - 0.034						YES	FD
205-99-2	Benzo(a)pyrene	0.072		0.52		mg/kg	SP02-002	4 / 21	0.028 - 0.034						YES	FD
218-01-9	Chrysene	0.041		0.67		mg/kg	SB01-002	6 / 21	0.028 - 0.034						YES	FD
53-70-3	Dibenzo(a,h)anthracene	0.099		0.13		mg/kg	SP02-002	3 / 21	0.028 - 0.034						YES	FD
206-44-0	Fluoranthene	0.039		1.1		mg/kg	SB01-002	6 / 21	0.028 - 0.034						YES	FD
86-73-7	Fluorene	0.03		0.31		mg/kg	SP34-002	4 / 21	0.028 - 0.034						YES	FD
193-39-5	Indeno(1,2,3-cd)pyrene	0.036		0.35		mg/kg	SP02-002	4 / 21	0.028 - 0.034						YES	FD
91-20-3	Naphthalene	0.042		1.1		mg/kg	SP13-003	7 / 21	0.028 - 0.034						YES	FD
85-01-8	Phenanthrene	0.063		1		mg/kg	SP02-002	7 / 21	0.028 - 0.034						YES	FD
129-00-0	Pyrene	0.033		1.2		mg/kg	SB01-002	7 / 21	0.028 - 0.034						YES	FD

NOTES:

(1) * For future resident scenario, subsurface soil is assumed potentially to be redistributed to the surface.

(2) Minimum/maximum detected concentration.

(3) Rationale Codes — Selection Reason: Frequent Detection (FD); Deletion Reason: Non Detect Data (ND)

Definitions: ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered; COPC = Chemical of Potential Concern

Table 4 (Continued)
Occurrence, Distribution and Selection of Chemicals of Potential Concern
Post-Remediation Resident 2 and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface/Subsurface soil*
Exposure Point:	Surface/Subsurface soil*

CAS Number	Chemical	Minimum (2) Concentration	Minimum Qualifier	Maximum (2) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Back-Ground Value (3)	Screening Toxicity Value	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for (4) Contaminant Deletion or Selection
12674-11-2	Aroclor 1016					mg/kg		0 / 21	0.09 - 0.1						NO	ND
11104-28-2	Aroclor 1221					mg/kg		0 / 21	0.09 - 0.1						NO	ND
11141-16-5	Aroclor 1232					mg/kg		0 / 21	0.09 - 0.1						NO	ND
53469-21-9	Aroclor 1242					mg/kg		0 / 21	0.09 - 0.1						NO	ND
12672-29-6	Aroclor 1248					mg/kg		0 / 21	0.09 - 0.1						NO	ND
11097-69-1	Aroclor 1254					mg/kg		0 / 21	0.18 - 0.21						NO	ND
11096-82-5	Aroclor 1260					mg/kg		0 / 21	0.18 - 0.21						NO	ND
7440-36-0	Antimony					mg/kg		0 / 21	0.97 - 1.2		4				NO	ND
7440-38-2	Arsenic	2.5		17	J	mg/kg	SB33-003	21 / 21	0.49 - 0.6		13				YES	ASL/FD
7440-39-3	Barium	19		100	J	mg/kg	SP34-002	21 / 21	0.97 - 1.2		110				NO	BSL
7440-41-7	Beryllium	0.63		1.3		mg/kg	SP03-002; SP34-002	21 / 21	0.52 - 1.3		0.59				YES	ASL/FD
7440-43-9	Cadmium	0.53		0.66		mg/kg	SP13-003	4 / 21	0.5 - 0.6		0.6				YES	ASL/FD
7440-47-3	Chromium	6.9		21	J	mg/kg	SP07-003	21 / 21	0.97 - 1.2		16.2				YES	ASL/FD
7440-50-8	Copper	8.9		55	J	mg/kg	SB33-003	21 / 21	0.97 - 1.2		19.6				YES	ASL/FD
7439-92-1	Lead	16		41		mg/kg	SB32-002	21 / 21	0.49 - 1.2		36				YES	ASL/FD
7439-97-6	Mercury	0.033		0.28		mg/kg	SB01-002	7 / 21	0.023 - 0.032		0.06				YES	ASL/FD
7440-02-0	Nickel	5.5		39	J	mg/kg	SP10-003; SP44-002	21 / 21	0.97 - 1.2		18				YES	ASL/FD
7782-49-2	Selenium					mg/kg		0 / 21	0.97 - 1.2		0.48				NO	ND
7440-22-4	Silver					mg/kg		0 / 21	0.97 - 1.2		0.55				NO	ND
7440-28-0	Thallium	1.2		4.2		mg/kg	SB01-002	20 / 21	1 - 1		0.32				YES	ASL/FD
7440-66-6	Zinc	23		70	J	mg/kg	SB01-002	21 / 21	4.9 - 6		95				NO	BSL
57-12-5	Total Cyanide					mg/kg		0 / 21	0.24 - 0.34		0.51				NO	ND

NOTES:

(1) * For future resident scenario, subsurface soil is assumed potentially to be redistributed to the surface.

(2) Minimum/maximum detected concentration.

(3) Metropolitan Stastical Areas (MSA) background values for metals were obtained from Illinois Tiered Approach to Corrective Action Objectives (TACO) (IAC 2002).

(4) Rationale Codes
Selection Reason: Frequent Detection (FD)
Above Screening Level (ASL)
Deletion Reason: Below Screening Level (BSL)
Non Detect Data (ND)

Definitions: ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
COPC = Chemical of Potential Concern
J = Estimated Value

Table 5
Risk Assessment Data Set
Post-Remediation Resident 1
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Chemical of Potential Concern (COPC)	Sample Location and Depth (feet below ground surface)/Concentration (mg/kg)					
	SB01-002 8-10	SP02-002 3-4	SP03-002 4-5	SP16-002 9-10	SB31-002 6-8	SB33-002 5-7
Acetone	0.0205	0.091	0.32	0.1	0.032	0.12
Benzene	0.0041	0.015	0.0085	0.0049	0.0065	0.006
2-Butanone	0.008	0.02	0.072	0.01	0.013	0.027
Ethylbenzene	0.0041	0.049	0.0085	0.0049	0.0065	0.006
o-Xylene	0.0041	0.012	0.0085	0.0049	0.0065	0.025
Bis(2-ethylhexyl)phthalate	0.45	0.19	0.22	0.195	0.185	0.2
Carbazole	0.19	0.47	0.22	0.195	0.185	0.2
Acenaphthene	0.0145	0.19	0.017	0.0145	0.014	0.0155
Acenaphthylene	0.0145	0.13	0.017	0.0145	0.029	0.0155
Anthracene	0.16	0.3	0.017	0.0145	0.047	0.0155
Benzo(a)anthracene	0.34	0.43	0.017	0.0145	0.014	0.0155
Benzo(b)fluoranthene	0.32	0.36	0.017	0.0145	0.014	0.0155
Benzo(k)fluoranthene	0.26	0.39	0.017	0.0145	0.014	0.0155
Benzo(g,h,i)perylene	0.23	0.48	0.017	0.0145	0.014	0.0155
Benzo(a)pyrene	0.21	0.52	0.017	0.0145	0.014	0.0155
Chrysene	0.67	0.62	0.017	0.0145	0.075	0.0155
Dibenzo(a,h)anthracene	0.099	0.13	0.017	0.0145	0.014	0.0155
Fluoranthene	1.1	0.85	0.017	0.0145	0.075	0.0155
Fluorene	0.0145	0.21	0.017	0.0145	0.03	0.0155
Indeno(1,2,3-cd)pyrene	0.2	0.35	0.017	0.0145	0.014	0.0155
Naphthalene	0.044	0.28	0.017	0.0145	0.11	0.14
Phenanthrene	0.35	1	0.017	0.0145	0.17	0.076
Pyrene	1.2	1.1	0.017	0.0145	0.13	0.047
Arsenic	9.2	2.5	3.6	12	12	5.1
Beryllium	0.87	0.63	1.3	1.1	0.93	1.2
Chromium	20	6.9	20	17	19	17
Copper	32	8.9	18	39	29	31
Lead	41	31	17	21	18	17
Mercury	0.28	0.035	0.0155	0.0135	0.037	0.046
Nickel	33	5.5	24	37	31	26
Thallium	4.2	0.5	1.2	1.8	1.2	1.9

NOTES:
(1) mg/kg - Milligrams per kilogram
(2) Non-detect values are entered as 1/2 the reporting limit

Table 5 (Continued)
Risk Assessment Data Set
Post-Remediation Resident 1
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Chemical of Potential Concern (COPC)	Sample Location and Depth (feet below ground surface)/Concentration (mg/kg)				
	SP34-002 5-7	SP35-002 6-7	SP37-002 8-9	SP40-002 7-8	SP44-002 6-7
Acetone	0.14	0.13	0.082	0.071	0.082
Benzene	0.006	0.006	0.00495	0.005	0.00445
2-Butanone	0.012	0.027	0.01	0.01	0.009
Ethylbenzene	0.006	0.006	0.005	0.005	0.00445
o-Xylene	0.006	0.006	0.00495	0.005	0.00445
Bis(2-ethylhexyl)phthalate	0.2	0.195	0.195	0.195	0.2
Carbazole	0.2	0.195	0.195	0.195	0.2
Acenaphthene	0.12	0.015	0.0145	0.0145	0.015
Acenaphthylene	0.086	0.015	0.0145	0.0145	0.015
Anthracene	0.17	0.015	0.0145	0.0145	0.015
Benzo(a)anthracene	0.094	0.064	0.0145	0.0145	0.015
Benzo(b)fluoranthene	0.13	0.041	0.0145	0.0145	0.015
Benzo(k)fluoranthene	0.14	0.056	0.0145	0.0145	0.015
Benzo(g,h,i)perylene	0.36	0.037	0.0145	0.0145	0.015
Benzo(a)pyrene	0.14	0.072	0.0145	0.0145	0.015
Chrysene	0.39	0.066	0.0145	0.0145	0.015
Dibenzo(a,h)anthracene	0.11	0.015	0.0145	0.0145	0.015
Fluoranthene	0.33	0.074	0.0145	0.0145	0.015
Fluorene	0.31	0.015	0.0145	0.0145	0.015
Indeno(1,2,3-cd)pyrene	0.24	0.036	0.0145	0.0145	0.015
Naphthalene	0.015	0.015	0.056	0.0145	0.015
Phenanthrene	0.13	0.015	0.0145	0.0145	0.015
Pyrene	1.2	0.074	0.0145	0.0145	0.015
Arsenic	7.5	5.8	15	10	13
Beryllium	1.3	0.83	1.2	1.1	1.2
Chromium	21	11	20	16	20
Copper	28	11	38	33	31
Lead	19	36	22	19	19
Mercury	0.0155	0.14	0.013	0.0145	0.015
Nickel	33	12	38	36	39
Thallium	2.1	2	2	2.2	1.8

NOTES:
(1) mg/kg - Milligrams per kilogram
(2) Non-detect values are entered as 1/2 the reporting limit.

Table 6
Risk Assessment Data Set
Post-Remediation Resident 2
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Chemical of Potential Concern (COPC)	Sample Location and Depth (feet below ground surface)/Concentration (mg/kg)					
	SB01-002 8-10	SP02-002 3-4	SP03-002 4-5	SP07-003 16-17	SP13-003 15-16	SB15-003 10-12
Acetone	0.0205	0.091	0.32	0.023	0.0275	0.1
Benzene	0.0041	0.012	0.0085	0.00465	0.0055	0.0055
2-Butanone	0.008	0.02	0.072	0.0095	0.011	0.011
o-Xylene	0.0041	0.012	0.0085	0.00465	0.0055	0.0055
Acenaphthene	0.0145	0.19	0.017	0.015	0.077	0.016
Acenaphthylene	0.0145	0.13	0.017	0.015	0.015	0.016
Anthracene	0.16	0.3	0.017	0.015	0.015	0.016
Benzo(a)anthracene	0.34	0.43	0.017	0.015	0.015	0.016
Benzo(b)fluoranthene	0.32	0.36	0.017	0.015	0.015	0.016
Benzo(k)fluoranthene	0.26	0.39	0.017	0.015	0.015	0.016
Benzo(g,h,i)perylene	0.23	0.48	0.017	0.015	0.015	0.016
Benzo(a)pyrene	0.21	0.52	0.017	0.015	0.015	0.016
Chrysene	0.67	0.62	0.017	0.015	0.015	0.016
Dibenzo(a,h)anthracene	0.099	0.13	0.017	0.015	0.015	0.016
Fluoranthene	1.1	0.85	0.017	0.015	0.015	0.016
Fluorene	0.0145	0.21	0.017	0.015	0.036	0.016
Indeno(1,2,3-cd)pyrene	0.2	0.35	0.017	0.015	0.015	0.016
Naphthalene	0.044	0.28	0.017	0.015	1.1	0.016
Phenanthrene	0.35	1	0.017	0.015	0.063	0.016
Pyrene	1.2	1.1	0.017	0.015	0.015	0.016
Arsenic	9.2	2.5	3.6	8.1	9.6	5
Beryllium	0.87	0.63	1.3	1.2	1	1.2
Cadmium	0.54	0.26	0.3	0.285	0.66	0.285
Chromium	20	6.9	20	21	17	19
Copper	32	8.9	18	24	34	31
Lead	41	31	17	16	19	16
Mercury	0.28	0.035	0.0155	0.016	0.061	0.016
Nickel	33	5.5	24	31	30	30
Thallium	4.2	0.5	1.2	2.1	1.9	2.5

NOTES:
(1) mg/kg - Milligrams per kilogram
(2) Non-detect values are entered as 1/2 the reporting limit

Table 6 (Continued)
Risk Assessment Data Set
Post-Remediation Resident 2
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Chemical of Potential Concern (COPC)	Sample Location and Depth (feet below ground surface)/Concentration (mg/kg)					
	SP16-002 9-10	SP16-003 15-16	SB31-002 6-8	SB33-002 5-7	SB33-003 10-12	SP34-002 5-7
Acetone	0.1	0.031	0.032	0.12	0.032	0.14
Benzene	0.0049	0.006	0.0065	0.025	0.0065	0.006
2-Butanone	0.01	0.0125	0.013	0.027	0.013	0.012
o-Xylene	0.0049	0.006	0.0065	0.025	0.0065	0.006
Acenaphthene	0.0145	0.0145	0.014	0.0155	0.015	0.12
Acenaphthylene	0.0145	0.0145	0.029	0.0155	0.015	0.086
Anthracene	0.0145	0.0145	0.047	0.0155	0.015	0.17
Benzo(a)anthracene	0.0145	0.0145	0.014	0.0155	0.015	0.094
Benzo(b)fluoranthene	0.0145	0.0145	0.014	0.0155	0.015	0.13
Benzo(k)fluoranthene	0.0145	0.0145	0.014	0.0155	0.015	0.14
Benzo(g,h,i)perylene	0.0145	0.0145	0.014	0.0155	0.015	0.36
Benzo(a)pyrene	0.0145	0.0145	0.014	0.0155	0.015	0.14
Chrysene	0.0145	0.0145	0.075	0.0155	0.041	0.39
Dibenzo(a,h)anthracene	0.0145	0.0145	0.014	0.0155	0.015	0.11
Fluoranthene	0.0145	0.0145	0.075	0.0155	0.039	0.33
Fluorene	0.0145	0.0145	0.03	0.0155	0.015	0.31
Indeno(1,2,3-cd)pyrene	0.0145	0.0145	0.014	0.0155	0.015	0.24
Naphthalene	0.0145	0.0145	0.11	0.14	0.042	0.015
Phenanthrene	0.0145	0.0145	0.17	0.076	0.083	0.13
Pyrene	0.0145	0.0145	0.13	0.047	0.033	1.2
Arsenic	12	9.6	12	5.1	17	7.5
Beryllium	1.1	1.1	0.93	1.2	1	1.3
Cadmium	0.26	0.28	0.275	0.59	0.27	0.295
Chromium	17	17	19	17	16	21
Copper	39	28	29	31	55	28
Lead	21	17	18	17	30	19
Mercury	0.0135	0.033	0.037	0.046	0.0115	0.0155
Nickel	37	24	31	26	30	33
Thallium	1.8	1.7	1.2	1.9	2	2.1

NOTES:
(1) mg/kg - Milligrams per kilogram
(2) Non-detect values are entered as 1/2 the reporting limit

Table 6 (Continued)
Risk Assessment Data Set
Post-Remediation Resident 2
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Chemical of Potential Concern (COPC)	Sample Location and Depth (feet below ground surface)/Concentration (mg/kg)				
	SP35-002 6-7	SP35-003 12-13	SP37-002 8-9	SP37-003 12-13	SP40-002 7-8
Acetone	0.13	0.021	0.082	0.066	0.071
Benzene	0.006	0.0042	0.00495	0.006	0.005
2-Butanone	0.027	0.0085	0.01	0.0115	0.01
o-Xylene	0.006	0.0042	0.00495	0.006	0.005
Acenaphthene	0.015	0.0145	0.0145	0.014	0.0145
Acenaphthylene	0.015	0.0145	0.0145	0.014	0.0145
Anthracene	0.015	0.0145	0.0145	0.014	0.0145
Benzo(a)anthracene	0.064	0.0145	0.0145	0.014	0.0145
Benzo(b)fluoranthene	0.041	0.0145	0.0145	0.014	0.0145
Benzo(k)fluoranthene	0.056	0.0145	0.0145	0.014	0.0145
Benzo(g,h,i)perylene	0.037	0.0145	0.0145	0.014	0.0145
Benzo(a)pyrene	0.072	0.0145	0.0145	0.014	0.0145
Chrysene	0.066	0.0145	0.0145	0.014	0.0145
Dibenzo(a,h)anthracene	0.015	0.0145	0.0145	0.014	0.0145
Fluoranthene	0.074	0.0145	0.0145	0.014	0.0145
Fluorene	0.015	0.0145	0.0145	0.014	0.0145
Indeno(1,2,3-cd)pyrene	0.036	0.0145	0.0145	0.014	0.0145
Naphthalene	0.015	0.0145	0.056	0.014	0.0145
Phenanthrene	0.015	0.0145	0.0145	0.014	0.0145
Pyrene	0.074	0.0145	0.0145	0.014	0.0145
Arsenic	5.8	12	15	7.7	10
Beryllium	0.83	1.1	1.2	1.1	1.1
Cadmium	0.28	0.28	0.53	0.295	0.28
Chromium	11	20	20	19	16
Copper	11	30	38	25	33
Lead	36	25	22	17	19
Mercury	0.14	0.012	0.013	0.0145	0.0145
Nickel	12	35	38	25	36
Thallium	2	2.2	2	1.8	2.2

NOTES:
(1) mg/kg - Milligrams per kilogram
(2) Non-detect values are entered as 1/2 the reporting limit

Table 6 (Continued)
Risk Assessment Data Set
Post-Remediation Resident 2
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Chemical of Potential Concern (COPC)	Sample Location and Depth (feet below ground surface)/Concentration (mg/kg)			
	SP40-003 14-15	SP43-003 11-12	SP44-002 6-7	SP44-003 12-13
Acetone	0.0215	0.0205	0.082	0.0345
Benzene	0.00435	0.00415	0.00445	0.007
2-Butanone	0.0085	0.0085	0.009	0.014
o-Xylene	0.00435	0.00415	0.00445	0.007
Acenaphthene	0.0145	0.0145	0.015	0.0145
Acenaphthylene	0.0145	0.0145	0.015	0.0145
Anthracene	0.0145	0.0145	0.015	0.0145
Benzo(a)anthracene	0.0145	0.0145	0.015	0.0145
Benzo(b)fluoranthene	0.0145	0.0145	0.015	0.0145
Benzo(k)fluoranthene	0.0145	0.0145	0.015	0.0145
Benzo(g,h,i)perylene	0.0145	0.0145	0.015	0.0145
Benzo(a)pyrene	0.0145	0.0145	0.015	0.0145
Chrysene	0.0145	0.0145	0.015	0.0145
Dibenzo(a,h)anthracene	0.0145	0.0145	0.015	0.0145
Fluoranthene	0.0145	0.0145	0.015	0.0145
Fluorene	0.0145	0.0145	0.015	0.0145
Indeno(1,2,3-cd)pyrene	0.0145	0.0145	0.015	0.0145
Naphthalene	0.0145	0.0145	0.015	0.0145
Phenanthrene	0.0145	0.0145	0.015	0.0145
Pyrene	0.0145	0.0145	0.015	0.0145
Arsenic	8.3	9	13	9.3
Beryllium	1.1	1.1	1.2	1.2
Cadmium	0.26	0.25	0.285	0.29
Chromium	19	21	20	20
Copper	28	30	31	33
Lead	17	19	19	20
Mercury	0.014	0.015	0.015	0.013
Nickel	28	33	39	35
Thallium	1.9	1.9	1.8	2.3

NOTES:
(1) mg/kg - Milligrams per kilogram
(2) Non-detect values are entered as 1/2 the reporting limit

Table 7
Statistical Analysis Results
Post-Remediation Resident 1
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Chemical of Potential Concern	Size of Sample	Distribution				Basic Statistical Analysis Results							
		Normal	Lognormal	Gamma	Non-parametric	Minimum (mg/kg)	Maximum (mg/kg)	Mean (mg/kg)	Lognormal Mean (mg/kg)	Median (mg/kg)	Standard Deviation (mg/kg)	95% UCL (mg/kg)	95% UCL Calculation Method
Acetone	11			X		0.021	0.32	0.108	0.086	0.091	0.079	0.164	Approximate Gamma
Benzene	11				X	0.004	0.015	0.006	0.006	0.006	0.003	0.008	Mod-t
2-Butanone	11				X	0.008	0.072	0.020	0.015	0.012	0.019	0.044	95% Chebyshev
Ethylbenzene	11				X	0.004	0.049	0.010	0.007	0.006	0.013	0.027	95% Chebyshev
o-Xylene	11				X	0.004	0.025	0.008	0.007	0.006	0.006	0.016	95% Chebyshev
Bis(2-ethylhexyl)phthalate	11				X	0.185	0.45	0.220	0.213	0.195	0.077	0.266	Mod-t
Carbazole	11				X	0.185	0.47	0.222	0.214	0.195	0.083	0.271	Mod-t
Acenaphthene	11				X	0.014	0.19	0.040	0.023	0.015	0.059	0.118	95% Chebyshev
Acenaphthylene	11				X	0.015	0.13	0.033	0.023	0.015	0.038	0.084	95% Chebyshev
Anthracene	11				X	0.015	0.3	0.071	0.034	0.016	0.096	0.198	95% Chebyshev
Benzo(a)anthracene	11				X	0.014	0.43	0.094	0.036	0.016	0.148	0.288	95% Chebyshev
Benzo(b)fluoranthene	11				X	0.014	0.36	0.087	0.035	0.016	0.13	0.258	95% Chebyshev
Benzo(k)fluoranthene	11				X	0.014	0.39	0.086	0.036	0.016	0.127	0.254	95% Chebyshev
Benzo(g,h,i)perylene	11				X	0.014	0.48	0.110	0.038	0.016	0.168	0.331	95% Chebyshev
Benzo(a)pyrene	11				X	0.014	0.52	0.095	0.037	0.016	0.155	0.299	95% Chebyshev
Chrysene	11				X	0.015	0.67	0.174	0.053	0.017	0.258	0.513	95% Chebyshev
Dibenzo(a,h)anthracene	11				X	0.014	0.13	0.042	0.026	0.015	0.046	0.103	95% Chebyshev
Fluoranthene	11				X	0.015	1.1	0.229	0.057	0.017	0.384	0.734	95% Chebyshev
Fluorene	11				X	0.015	0.31	0.061	0.027	0.015	0.101	0.194	95% Chebyshev
Indeno(1,2,3-cd)pyrene	11				X	0.014	0.35	0.085	0.035	0.016	0.12	0.242	95% Chebyshev
Naphthalene	11				X	0.015	0.28	0.066	0.036	0.017	0.083	0.175	95% Chebyshev
Phenanthrene	11				X	0.015	1	0.165	0.052	0.017	0.296	0.554	95% Chebyshev
Pyrene	11			X		0.015	1.2	0.348	0.077	0.047	0.528	0.998	Approximate Gamma
Arsenic	11	X				2.5	15	8.700	7.638	9.2	4.113	10.948	Student's-t
Beryllium	11	X				0.63	1.3	1.060	1.037	1.1	0.216	1.178	Student's-t
Chromium	11				X	6.9	21	17.082	16.356	19	4.415	19.389	Mod-t
Copper	11	X				8.9	39	27.173	24.768	31	10.135	32.712	Student's-t
Lead	11				X	17	41	23.636	22.517	19	8.382	28.387	Mod-t
Mercury	11				X	0.013	0.28	0.057	0.031	0.016	0.083	0.166	95% Chebyshev
Nickel	11				X	5.5	39	28.591	25.322	33	10.97	34.373	Mod-t
Thallium	11			X		0.5	4.2	1.900	1.701	1.9	0.917	2.537	Approximate Gamma

Notes:
1) Distribution types determined using Shapiro-Wilk test.
2) ProUCL Software recommends an appropriate method for calculating 95UCL for each COPC.

References:
USEPA 2004a: ProUCL Version 3.0 User's Guide, April.
Singh, Singh, Iaci 2002: Estimation of the Exposure Point Concentration Term Using a Gamma Distribution. EPA/600/R-02/084.

Table 8
Statistical Analysis Results
Post-Remediation Resident 2
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Chemical of Potential Concern	Size of Sample	Distribution				Basic Statistical Analysis Result							
		Normal	Lognormal	Gamma	Non-parametric	Minimum (mg/kg)	Maximum (mg/kg)	Mean (mg/kg)	Lognormal Mean (mg/kg)	Median (mg/kg)	Standard Deviation (mg/kg)	95% UCL (mg/kg)	95% UCL Calculation Method
Acetone	21		X			0.021	0.32	0.075	0.054	0.066	0.069	0.113	H
Benzene	21				X	0.004	0.025	0.007	0.006	0.006	0.005	0.009	Mod-t
2-Butanone	21				X	0.008	0.072	0.016	0.013	0.011	0.014	0.029	95% Chebyshev
o-Xylene	21				X	0.004	0.025	0.007	0.006	0.006	0.005	0.009	Mod-t
Acenaphthene	21				X	0.014	0.19	0.031	0.02	0.015	0.045	0.074	95% Chebyshev
Acenaphthylene	21				X	0.014	0.13	0.024	0.019	0.015	0.029	0.052	95% Chebyshev
Anthracene	21				X	0.014	0.3	0.044	0.023	0.015	0.074	0.115	99% Chebyshev
Benzo(a)anthracene	21				X	0.014	0.43	0.056	0.024	0.015	0.112	0.299	99% Chebyshev
Benzo(b)fluoranthene	21				X	0.014	0.36	0.053	0.023	0.015	0.099	0.268	99% Chebyshev
Benzo(k)fluoranthene	21				X	0.014	0.39	0.052	0.024	0.015	0.097	0.263	99% Chebyshev
Benzo(g,h,i)perylene	21				X	0.014	0.48	0.065	0.024	0.015	0.128	0.344	99% Chebyshev
Benzo(a)pyrene	21				X	0.014	0.52	0.057	0.024	0.015	0.117	0.312	99% Chebyshev
Chrysene	21				X	0.014	0.67	0.099	0.03	0.015	0.199	0.532	99% Chebyshev
Dibenzo(a,h)anthracene	21				X	0.014	0.13	0.029	0.02	0.015	0.036	0.063	95% Chebyshev
Fluoranthene	21				X	0.014	1.1	0.128	0.031	0.015	0.293	0.763	99% Chebyshev
Fluorene	21				X	0.014	0.31	0.04	0.021	0.015	0.075	0.111	99% Chebyshev
Indeno(1,2,3-cd)pyrene	21				X	0.014	0.35	0.051	0.023	0.015	0.092	0.251	99% Chebyshev
Naphthalene	21				X	0.014	1.1	0.094	0.03	0.015	0.239	0.613	99% Chebyshev
Phenanthrene	21				X	0.014	1	0.099	0.033	0.015	0.222	0.58	99% Chebyshev
Pyrene	21				X	0.014	1.2	0.19	0.036	0.015	0.41	1.08	99% Chebyshev
Arsenic	21	X				2.5	17	9.11	8.32	9.2	3.624	10.474	Student's-t
Beryllium	21				X	0.63	1.3	1.084	1.07	1.1	0.163	1.144	Mod-t
Cadmium	21				X	0.25	0.66	0.336	0.319	0.285	0.124	0.384	Mod-t
Chromium	21				X	6.9	21	17.948	17.489	19	3.458	19.192	Mod-t
Copper	21				X	8.9	55	29.376	27.546	30	9.558	32.983	Mod-t
Lead	21				X	16	41	21.714	20.872	19	6.972	24.433	Mod-t
Mercury	21				X	0.012	0.28	0.04	0.023	0.016	0.062	0.099	95% Chebyshev
Nickel	21				X	5.5	39	29.31	27.401	31	8.186	32.284	Mod-t
Thallium	21				X	0.5	4.2	1.962	1.845	1.9	0.672	2.222	Mod-t

Notes:
1) Distribution types determined using Shapiro-Wilk test.
2) ProUCL Software recommends an appropriate method for calculating 95UCL for each COPC.

References:
USEPA 2004a: ProUCL Version 3.0 User's Guide, April.
Singh, Singh, Iaci 2002: Estimation of the Exposure Point Concentration Term Using a Gamma Distribution. EPA/600/R-02/084.

Table 9
Medium-Specific Exposure Point Concentration Summary
Post-Remediation Resident 1
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface/Subsurface soil*
Exposure Point:	Surface/Subsurface soil*

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of the Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Acetone	mg/kg	0.108	0.164	0.32		mg/kg	0.164	95 UCL	W-Test	0.164	95 UCL	W-Test
Benzene	mg/kg	0.006	0.008	0.015		mg/kg	0.008	95 UCL	W-Test	0.008	95 UCL	W-Test
2-Butanone	mg/kg	0.02	0.044	0.072		mg/kg	0.044	95 UCL	W-Test	0.044	95 UCL	W-Test
Ethylbenzene	mg/kg	0.01	0.027	0.049		mg/kg	0.027	95 UCL	W-Test	0.027	95 UCL	W-Test
o-Xylene	mg/kg	0.008	0.016	0.025		mg/kg	0.016	95 UCL	W-Test	0.016	95 UCL	W-Test
Bis(2-ethylhexyl)phthalate	mg/kg	0.22	0.266	0.45		mg/kg	0.266	95 UCL	W-Test	0.266	95 UCL	W-Test
Carbazole	mg/kg	0.222	0.271	0.47		mg/kg	0.271	95 UCL	W-Test	0.271	95 UCL	W-Test
Acenaphthene	mg/kg	0.04	0.118	0.19		mg/kg	0.118	95 UCL	W-Test	0.118	95 UCL	W-Test
Acenaphthylene	mg/kg	0.033	0.084	0.13		mg/kg	0.084	95 UCL	W-Test	0.084	95 UCL	W-Test
Anthracene	mg/kg	0.071	0.198	0.3		mg/kg	0.198	95 UCL	W-Test	0.198	95 UCL	W-Test
Benzo(a)anthracene	mg/kg	0.094	0.288	0.43		mg/kg	0.288	95 UCL	W-Test	0.288	95 UCL	W-Test
Benzo(b)fluoranthene	mg/kg	0.087	0.258	0.36		mg/kg	0.258	95 UCL	W-Test	0.258	95 UCL	W-Test
Benzo(k)fluoranthene	mg/kg	0.086	0.254	0.39		mg/kg	0.254	95 UCL	W-Test	0.254	95 UCL	W-Test
Benzo(g,h,i)perylene	mg/kg	0.11	0.331	0.48		mg/kg	0.331	95 UCL	W-Test	0.331	95 UCL	W-Test
Benzo(a)pyrene	mg/kg	0.095	0.299	0.52		mg/kg	0.299	95 UCL	W-Test	0.299	95 UCL	W-Test
Chrysene	mg/kg	0.174	0.513	0.67		mg/kg	0.513	95 UCL	W-Test	0.513	95 UCL	W-Test
Dibenzo(a,h)anthracene	mg/kg	0.042	0.103	0.13		mg/kg	0.103	95 UCL	W-Test	0.103	95 UCL	W-Test
Fluoranthene	mg/kg	0.229	0.734	1.1		mg/kg	0.734	95 UCL	W-Test	0.734	95 UCL	W-Test
Fluorene	mg/kg	0.061	0.194	0.31		mg/kg	0.194	95 UCL	W-Test	0.194	95 UCL	W-Test
Indeno(1,2,3-cd)pyrene	mg/kg	0.085	0.242	0.35		mg/kg	0.242	95 UCL	W-Test	0.242	95 UCL	W-Test
Naphthalene	mg/kg	0.066	0.175	0.28		mg/kg	0.175	95 UCL	W-Test	0.175	95 UCL	W-Test
Phenanthrene	mg/kg	0.165	0.554	1		mg/kg	0.554	95 UCL	W-Test	0.554	95 UCL	W-Test
Pyrene	mg/kg	0.348	0.998	1.2		mg/kg	0.998	95 UCL	W-Test	0.998	95 UCL	W-Test
Arsenic**	mg/kg	8.7	10.948	15	J							
Beryllium	mg/kg	1.06	1.178	1.3		mg/kg	1.178	95 UCL	W-Test	1.178	95 UCL	W-Test
Chromium	mg/kg	17.082	19.389	21	J	mg/kg	19.389	95 UCL	W-Test	19.389	95 UCL	W-Test
Copper	mg/kg	27.173	32.712	39	J	mg/kg	32.712	95 UCL	W-Test	32.712	95 UCL	W-Test
Lead**	mg/kg	23.636	28.387	41								
Mercury	mg/kg	0.057	0.166	0.28		mg/kg	0.166	95 UCL	W-Test	0.166	95 UCL	W-Test
Nickel	mg/kg	28.591	34.373	39	J	mg/kg	34.373	95 UCL	W-Test	34.373	95 UCL	W-Test
Thallium	mg/kg	1.9	2.537	4.2		mg/kg	2.537	95 UCL	W-Test	2.537	95 UCL	W-Test

Notes:

(1) * For future resident scenario, subsurface soil is assumed potentially to be redistributed to the surface.

(2) UCL - Upper Confidence Limit.

(3) EPC - Exposure Point Concentration.

(4) ** Arsenic and lead are eliminated because the 95% UCL value is less than the MSA inorganic background level.

(5) J - Estimated value.

Table 10
Medium-Specific Exposure Point Concentration Summary
Post-Remediation Resident 2
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface/Subsurface soil*
Exposure Point:	Surface/Subsurface soil*

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of the Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Acetone	mg/kg	0.075	0.113	0.32		mg/kg	0.113	95 UCL	W-Test	0.113	95 UCL	W-Test
Benzene	mg/kg	0.007	0.009	0.015		mg/kg	0.009	95 UCL	W-Test	0.009	95 UCL	W-Test
2-Butanone	mg/kg	0.016	0.029	0.072		mg/kg	0.029	95 UCL	W-Test	0.029	95 UCL	W-Test
o-Xylene	mg/kg	0.007	0.009	0.025		mg/kg	0.009	95 UCL	W-Test	0.009	95 UCL	W-Test
Acenaphthene	mg/kg	0.031	0.074	0.19		mg/kg	0.074	95 UCL	W-Test	0.074	95 UCL	W-Test
Acenaphthylene	mg/kg	0.024	0.052	0.13		mg/kg	0.052	95 UCL	W-Test	0.052	95 UCL	W-Test
Anthracene	mg/kg	0.044	0.115	0.3		mg/kg	0.115	95 UCL	W-Test	0.115	95 UCL	W-Test
Benzo(a)anthracene	mg/kg	0.056	0.299	0.43		mg/kg	0.299	95 UCL	W-Test	0.299	95 UCL	W-Test
Benzo(b)fluoranthene	mg/kg	0.053	0.268	0.36		mg/kg	0.268	95 UCL	W-Test	0.268	95 UCL	W-Test
Benzo(k)fluoranthene	mg/kg	0.052	0.263	0.39		mg/kg	0.263	95 UCL	W-Test	0.263	95 UCL	W-Test
Benzo(g,h,i)perylene	mg/kg	0.065	0.344	0.48		mg/kg	0.344	95 UCL	W-Test	0.344	95 UCL	W-Test
Benzo(a)pyrene	mg/kg	0.057	0.312	0.52		mg/kg	0.312	95 UCL	W-Test	0.312	95 UCL	W-Test
Chrysene	mg/kg	0.099	0.532	0.67		mg/kg	0.532	95 UCL	W-Test	0.532	95 UCL	W-Test
Dibenzo(a,h)anthracene	mg/kg	0.029	0.063	0.13		mg/kg	0.063	95 UCL	W-Test	0.063	95 UCL	W-Test
Fluoranthene	mg/kg	0.128	0.763	1.1		mg/kg	0.763	95 UCL	W-Test	0.763	95 UCL	W-Test
Fluorene	mg/kg	0.040	0.111	0.31		mg/kg	0.111	95 UCL	W-Test	0.111	95 UCL	W-Test
Indeno(1,2,3-cd)pyrene	mg/kg	0.051	0.251	0.35		mg/kg	0.251	95 UCL	W-Test	0.251	95 UCL	W-Test
Naphthalene	mg/kg	0.094	0.613	1.1		mg/kg	0.613	95 UCL	W-Test	0.613	95 UCL	W-Test
Phenanthrene	mg/kg	0.099	0.58	1		mg/kg	0.58	95 UCL	W-Test	0.58	95 UCL	W-Test
Pyrene	mg/kg	0.190	1.08	1.2		mg/kg	1.08	95 UCL	W-Test	1.08	95 UCL	W-Test
Arsenic**	mg/kg	9.110	10.474	17	J							
Beryllium	mg/kg	1.084	1.144	1.3		mg/kg	1.144	95 UCL	W-Test	1.144	95 UCL	W-Test
Cadmium**	mg/kg	0.336	0.384	0.66								
Chromium	mg/kg	17.948	19.192	21	J	mg/kg	19.192	95 UCL	W-Test	19.192	95 UCL	W-Test
Copper	mg/kg	29.376	32.983	55	J	mg/kg	32.983	95 UCL	W-Test	32.983	95 UCL	W-Test
Lead**	mg/kg	21.714	24.433	41								
Mercury	mg/kg	0.040	0.099	0.28		mg/kg	0.099	95 UCL	W-Test	0.099	95 UCL	W-Test
Nickel	mg/kg	29.310	32.284	39	J	mg/kg	32.284	95 UCL	W-Test	32.284	95 UCL	W-Test
Thallium	mg/kg	1.962	2.222	4.2		mg/kg	2.222	95 UCL	W-Test	2.222	95 UCL	W-Test

Notes:

(1) * For future resident scenario, subsurface soil is assumed potentially to be redistributed to the surface.

(2) UCL - Upper Confidence Limit

(3) EPC - Exposure Point Concentration

(4) ** Arsenic, cadmium and lead are eliminated because the 95% UCL value is less than the MSA inorganic background level

(5) J - Estimated value.

Table 11
Medium-Specific Exposure Point Concentration Summary
Post-Remediation Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Subsurface Soil

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of the Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Acetone	mg/kg	NA	NA	0.32		mg/kg	0.32	Max	Site-Wide	0.32	Max	Site-Wide
Benzene	mg/kg	NA	NA	0.015		mg/kg	0.015	Max	Site-Wide	0.015	Max	Site-Wide
2-Butanone	mg/kg	NA	NA	0.072		mg/kg	0.072	Max	Site-Wide	0.072	Max	Site-Wide
Ethylbenzene	mg/kg	NA	NA	0.049		mg/kg	0.049	Max	Site-Wide	0.049	Max	Site-Wide
o-Xylene	mg/kg	NA	NA	0.025		mg/kg	0.025	Max	Site-Wide	0.025	Max	Site-Wide
Bis(2-ethylhexyl)phthalate	mg/kg	NA	NA	0.45		mg/kg	0.45	Max	Site-Wide	0.45	Max	Site-Wide
Carbazole	mg/kg	NA	NA	0.47		mg/kg	0.47	Max	Site-Wide	0.47	Max	Site-Wide
Acenaphthene	mg/kg	NA	NA	0.19		mg/kg	0.19	Max	Site-Wide	0.19	Max	Site-Wide
Acenaphthylene	mg/kg	NA	NA	0.13		mg/kg	0.13	Max	Site-Wide	0.13	Max	Site-Wide
Anthracene	mg/kg	NA	NA	0.3		mg/kg	0.3	Max	Site-Wide	0.3	Max	Site-Wide
Benzo(a)anthracene	mg/kg	NA	NA	0.43		mg/kg	0.43	Max	Site-Wide	0.43	Max	Site-Wide
Benzo(b)fluoranthene	mg/kg	NA	NA	0.36		mg/kg	0.36	Max	Site-Wide	0.36	Max	Site-Wide
Benzo(k)fluoranthene	mg/kg	NA	NA	0.39		mg/kg	0.39	Max	Site-Wide	0.39	Max	Site-Wide
Benzo(g,h,i)perylene	mg/kg	NA	NA	0.48		mg/kg	0.48	Max	Site-Wide	0.48	Max	Site-Wide
Benzo(a)pyrene	mg/kg	NA	NA	0.52		mg/kg	0.52	Max	Site-Wide	0.52	Max	Site-Wide
Chrysene	mg/kg	NA	NA	0.67		mg/kg	0.67	Max	Site-Wide	0.67	Max	Site-Wide
Dibenzo(a,h)anthracene	mg/kg	NA	NA	0.13		mg/kg	0.13	Max	Site-Wide	0.13	Max	Site-Wide
Fluoranthene	mg/kg	NA	NA	1.1		mg/kg	1.1	Max	Site-Wide	1.1	Max	Site-Wide
Fluorene	mg/kg	NA	NA	0.31		mg/kg	0.31	Max	Site-Wide	0.31	Max	Site-Wide
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	0.35		mg/kg	0.35	Max	Site-Wide	0.35	Max	Site-Wide
Naphthalene	mg/kg	NA	NA	0.28		mg/kg	0.28	Max	Site-Wide	0.28	Max	Site-Wide
Phenanthrene	mg/kg	NA	NA	1		mg/kg	1	Max	Site-Wide	1	Max	Site-Wide
Pyrene	mg/kg	NA	NA	1.2		mg/kg	1.2	Max	Site-Wide	1.2	Max	Site-Wide
Arsenic	mg/kg	NA	NA	15	J	mg/kg	15	Max	Site-Wide	15	Max	Site-Wide
Beryllium	mg/kg	NA	NA	1.3		mg/kg	1.3	Max	Site-Wide	1.3	Max	Site-Wide
Chromium	mg/kg	NA	NA	21	J	mg/kg	21	Max	Site-Wide	21	Max	Site-Wide
Copper	mg/kg	NA	NA	39	J	mg/kg	39	Max	Site-Wide	39	Max	Site-Wide
Lead	mg/kg	NA	NA	41		mg/kg	41	Max	Site-Wide	41	Max	Site-Wide
Mercury	mg/kg	NA	NA	0.28		mg/kg	0.28	Max	Site-Wide	0.28	Max	Site-Wide
Nickel	mg/kg	NA	NA	39	J	mg/kg	39	Max	Site-Wide	39	Max	Site-Wide
Thallium	mg/kg	NA	NA	4.2		mg/kg	4.2	Max	Site-Wide	4.2	Max	Site-Wide

Notes:

(1) UCL - Upper Confidence Limit.

(2) EPC - Exposure Point Concentration.

(3) NA - Not Applicable.

(4) J - Estimated value.

Table 12
Medium-Specific Exposure Point Concentration Summary
Post-Remediation Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Subsurface Soil

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of the Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Acetone	mg/kg	NA	NA	0.32		mg/kg	0.32	Max	Site-Wide	0.32	Max	Site-Wide
Benzene	mg/kg	NA	NA	0.015		mg/kg	0.015	Max	Site-Wide	0.015	Max	Site-Wide
2-Butanone	mg/kg	NA	NA	0.072		mg/kg	0.072	Max	Site-Wide	0.072	Max	Site-Wide
o-Xylene	mg/kg	NA	NA	0.025		mg/kg	0.025	Max	Site-Wide	0.025	Max	Site-Wide
Acenaphthene	mg/kg	NA	NA	0.19		mg/kg	0.19	Max	Site-Wide	0.19	Max	Site-Wide
Acenaphthylene	mg/kg	NA	NA	0.13		mg/kg	0.13	Max	Site-Wide	0.13	Max	Site-Wide
Anthracene	mg/kg	NA	NA	0.3		mg/kg	0.3	Max	Site-Wide	0.3	Max	Site-Wide
Benzo(a)anthracene	mg/kg	NA	NA	0.43		mg/kg	0.43	Max	Site-Wide	0.43	Max	Site-Wide
Benzo(b)fluoranthene	mg/kg	NA	NA	0.36		mg/kg	0.36	Max	Site-Wide	0.36	Max	Site-Wide
Benzo(k)fluoranthene	mg/kg	NA	NA	0.39		mg/kg	0.39	Max	Site-Wide	0.39	Max	Site-Wide
Benzo(g,h,i)perylene	mg/kg	NA	NA	0.48		mg/kg	0.48	Max	Site-Wide	0.48	Max	Site-Wide
Benzo(a)pyrene	mg/kg	NA	NA	0.52		mg/kg	0.52	Max	Site-Wide	0.52	Max	Site-Wide
Chrysene	mg/kg	NA	NA	0.67		mg/kg	0.67	Max	Site-Wide	0.67	Max	Site-Wide
Dibenzo(a,h)anthracene	mg/kg	NA	NA	0.13		mg/kg	0.13	Max	Site-Wide	0.13	Max	Site-Wide
Fluoranthene	mg/kg	NA	NA	1.1		mg/kg	1.1	Max	Site-Wide	1.1	Max	Site-Wide
Fluorene	mg/kg	NA	NA	0.31		mg/kg	0.31	Max	Site-Wide	0.31	Max	Site-Wide
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	0.35		mg/kg	0.35	Max	Site-Wide	0.35	Max	Site-Wide
Naphthalene	mg/kg	NA	NA	1.1		mg/kg	1.1	Max	Site-Wide	1.1	Max	Site-Wide
Phenanthrene	mg/kg	NA	NA	1		mg/kg	1	Max	Site-Wide	1	Max	Site-Wide
Pyrene	mg/kg	NA	NA	1.2		mg/kg	1.2	Max	Site-Wide	1.2	Max	Site-Wide
Arsenic	mg/kg	NA	NA	17	J	mg/kg	17	Max	Site-Wide	17	Max	Site-Wide
Beryllium	mg/kg	NA	NA	1.3		mg/kg	1.3	Max	Site-Wide	1.3	Max	Site-Wide
Cadmium	mg/kg	NA	NA	0.66		mg/kg	0.66	Max	Site-Wide	0.66	Max	Site-Wide
Chromium	mg/kg	NA	NA	21	J	mg/kg	21	Max	Site-Wide	21	Max	Site-Wide
Copper	mg/kg	NA	NA	55	J	mg/kg	55	Max	Site-Wide	55	Max	Site-Wide
Lead	mg/kg	NA	NA	41		mg/kg	41	Max	Site-Wide	41	Max	Site-Wide
Mercury	mg/kg	NA	NA	0.28		mg/kg	0.28	Max	Site-Wide	0.28	Max	Site-Wide
Nickel	mg/kg	NA	NA	39	J	mg/kg	39	Max	Site-Wide	39	Max	Site-Wide
Thallium	mg/kg	NA	NA	4.2		mg/kg	4.2	Max	Site-Wide	4.2	Max	Site-Wide

Notes:

(1) UCL - Upper Confidence Limit.

(2) EPC - Exposure Point Concentration.

(3) NA - Not Applicable.

(4) J - Estimated value.

Table 13
Vapor Emission Rate Calculations
Post-Remediation Resident 1 and 2
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Equation:

$Da = [[(\theta a^{3.33} \times Di \times H') + (\theta w^{3.33} \times Dw)] / n^2] / [(\rho_b \times Kd) + \theta w + (\theta a \times H')]$

(35 IAC 742, Appendix C, Table A, Equation S10)

Where:

- Da = Apparent diffusivity representing emissions (cm^2/s)
- n = Total soil porosity = 1 - (ρb/ρs) (l_{pore}/l_{soil})
- ρb = Dry soil bulk density (g/cm^3)
- ρs = Soil particle density (g/cm^3)
- θw = Water filled soil porosity (l_{water}/l_{soil})
- θa = Air filled soil porosity = n - θw (l_{air}/l_{soil})
- Di = Diffusivity in air (cm^2/s), chemical specific
- Dw = Diffusivity in water (cm^2/s), chemical specific
- H' = Henry's Law Constant (dimensionless) at 25 °C, chemical-specific
- Kd = Soil -water partition coefficient (cm^3/g) = Koc x foc (organics), chemical specific
- Koc = Soil organic carbon parition coefficient (cm^3/g), chemical specific
- foc = Fraction organic carbon in soil (g/g)

Variable Values:

n =	0.43	l_{pore}/l_{soil}	Unitless (IAC 2002)
ρb =	1.5	g/cm^3	Default Value (IAC 2002)
ρs =	2.65	g/cm^3	Default Value (IAC 2002)
θw =	0.30	l_{water}/l_{soil}	Subsurface Value, (IAC 2002)
θa =	0.13	l_{air}/l_{soil}	Subsurface Value, (IAC 2002)
foc =	0.002	g/g	Subsurface Value, (IAC 2002)

Chemical of Potential Concern	Di (cm^2/s)	Dw (cm^2/s)	H' (unitless)	Koc (cm^3/g)	Kd (cm^3/g)	Da (cm^2/s)
Acetone	1.24E-01	1.14E-05	1.59E-03	5.75E-01	1.15E-03	7.48E-06
Benzene	8.80E-02	9.80E-06	2.28E-01	5.89E+01	1.18E-01	2.36E-04
2-Butanone	9.00E-02	9.80E-06	1.10E-03	4.50E+00	9.00E-03	4.86E-06
Ethylbenzene*	7.50E-02	7.86E-06	3.23E-01	3.63E+02	7.26E-01	1.01E-04
o-Xylene	8.70E-02	1.00E-05	2.13E-01	3.63E+02	7.26E-01	7.80E-05
Naphthalene	5.90E-02	7.50E-06	1.98E-02	2.00E+03	4.00E+00	1.21E-06

Notes:
(1) *COPC for Resident 1 scenario only
(2) Di, Dw, H' and Koc from 35 IAC 742, Appendix C, Table E

Table 14
Soil to Air Volatilization Factor Calculations
Post-Remediation Resident 1 and 2
Former Willow Street Station Gas Distribution and Storage Facility,
1640 North Kingsbury Street

Equation:

VF = $[(Q/C) \times (3.14 \times Da \times T)^{1/2} \times 10^{-4} (m^2/cm^2)] / [2 \times \rho b \times Da]$

(35 IAC 742, Appendix C, Table A, Equation S8)

Where:

VF = Soil to air volatilization factor (m^3/kg)

Q/C = Inverse of the ratio of mean air concentration to emission flux at the center of the source representing the site specific dispersion factor (g/m^2-s per kg/m^2)

= A x exp(((ln Asite-B)2)/C) (USEPA 2002b)

Where:

A = Constant based on air dispersion modeling for specific climate zones

B = Constant based on air dispersion modeling for specific climate zones

C = Constant based on air dispersion modeling for specific climate zones

Asite = Extent of the site or contamination, can range from 0.5 to 500 acres (acres)

Da = Apparent diffusivity representing emissions (cm^2/s)

T = Exposure interval (s)

ρb = Dry soil bulk density (g/cm^3)

Variable Values:

A = 16.8653 (Zone 7 Chicago, IL) (USEPA 2002b)

B = 18.7848 (Zone 7 Chicago, IL) (USEPA 2002b)

C = 215.0624 (Zone 7 Chicago, IL) (USEPA 2002b)

Asite = 3.4 acres (site specific)

T (RME)= 9.5E+08 s (site specific) (30 years, 24 hr/day)

T (CT)= 2.8E+08 s (site specific) (9 years, 24 hr/day)

ρb = 1.5 g/cm^3

Chemical of Potential Concern	Q/C (g/m^2-s per kg/m^2)	Da (cm^2/s)	VF (RME) (m^3/kg)	VF (CT) (m^3/kg)
Acetone	70.75	7.48E-06	4.71E+04	2.56E+04
Benzene	70.75	2.36E-04	8.38E+03	4.55E+03
2-Butanone	70.75	4.86E-06	5.84E+04	3.17E+04
Ethylbenzene*	70.75	1.01E-04	1.28E+04	6.97E+03
o-Xylene	70.75	7.80E-05	1.46E+04	7.92E+03
Naphthalene	70.75	1.21E-06	1.17E+05	6.36E+04

Notes:

(1) Da value from Table 13.

(2) *COPC for Resident 1 scenario only.

Table 15
Vapor Emission Rate Calculations
Post-Remediation Utility Worker and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Equation:

$Da = [[(\theta a^{3.33} \times Di \times H') + (\theta w^{3.33} \times Dw)] / n^2] / [(\rho_b \times Kd) + \theta w + (\theta a \times H')]$

Where:

Da = Apparent diffusivity representing emissions (cm^2/s)
n = Total soil porosity = 1 - (ρb/ρs) (l_{pore}/l_{soil})
ρb = Dry soil bulk density (g/cm^3)
ρs = Soil particle density (g/cm^3)
θw = Water filled soil porosity (l_{water}/l_{soil})
θa = Air filled soil porosity = n - θw (l_{air}/l_{soil})
Di = Diffusivity in air (cm^2/s), chemical specific
Dw = Diffusivity in water (cm^2/s), chemical specific
H' = Henry's Law Constant (dimensionless) at 25 °C, chemical-specific
Kd = Soil -water partition coefficient (cm^3/g) = Koc x foc (organics), chemical specific
Koc = Soil organic carbon parition coefficient (cm^3/g), chemical specific
foc = Fraction organic carbon in soil (g/g)

Variable Values:

n =	0.43	l_{pore}/l_{soil}	Unitless (IAC 2002)
ρb =	1.5	g/cm^3	Default Value (IAC 2002)
ρs =	2.65	g/cm^3	Default Value (IAC 2002)
θw =	0.15	l_{water}/l_{soil}	Surface Value, USEPA model for construction worker assumes all contamination is at the surface of the site (IAC 2002, USEPA 2002b)
θa =	0.28	l_{air}/l_{soil}	Surface Value, USEPA model for construction worker assumes all contamination is at the surface of the site (IAC 2002, USEPA 2002b)
foc =	0.006	g/g	Surface Value, USEPA model for construction worker assumes all contamination is at the surface of the site (IAC 2002, USEPA 2002b)

Chemical of Potential Concern	Di (cm^2/s)	Dw (cm^2/s)	H' (unitless)	Koc (cm^3/g)	Kd (cm^3/g)	Da (cm^2/s)
Acetone	1.24E-01	1.14E-05	1.59E-03	5.75E-01	3.45E-03	9.73E-05
Benzene	8.80E-02	9.80E-06	2.28E-01	5.89E+01	3.53E-01	2.06E-03
2-Butanone	9.00E-02	9.80E-06	1.10E-03	4.50E+00	2.70E-02	4.01E-05
Ethylbenzene*	7.50E-02	7.86E-06	3.23E-01	3.63E+02	2.18E+00	5.27E-04
o-Xylene	8.70E-02	1.00E-05	2.13E-01	3.63E+02	2.18E+00	4.06E-04
Naphthalene	5.90E-02	7.50E-06	1.98E-02	2.00E+03	1.20E+01	4.91E-06

Note:

(1) *COPC for Utility Worker scenario only

Table 16
Soil to Air Volatilization Factor Calculations
Post-Remediation Utility Worker and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Street

Equation:

$VF = [(Q/Csa) \times (3.14 \times Da \times T)^{1/2} \times 10^{-4} (m^2/cm^2) \times 1/F_D] / [2 \times \rho b \times Da]$

(35 IAC 742, Appendix C, Table A, Equation S8)

Where:

VF = Soil to air volatilization factor (m^3/kg)

Q/Csa = Inverse of the ratio of mean air conc. to emission flux at the center of the source representing the site specific dispersion factor (g/m^2-s per kg/m^2)

$= A \times \exp(((\ln Ac-B)^2)/C)$ (USEPA 2002b)

Where:

A = Constant based on air dispersion modeling

B = Constant based on air dispersion modeling

C = Constant based on air dispersion modeling

Ac = Constant based on air dispersion modeling

Da = Apparent diffusivity representing emissions (cm^2/s)

T = Exposure interval (s)

ρb = Dry soil bulk density (g/cm^3)

F_D = Utility/Construction Worker dispersion correction factor

Variable Values:

A = 2.4538 (USEPA 2002b)

B = 17.5660 (USEPA 2002b)

C = 189.0426 (USEPA 2002b)

Asite = 3.4 acres (site specific)

T = 3.2E+07 s (site specific) (365 days, 24 hr/day = Exposure Duration)

ρb = 1.5 g/cm^3

F_D = 0.185 unitless

Chemical of Potential Concern	Q/Csa (g/m^2-s per kg/m^2)	Da (cm^2/s)	VF (m^3/kg)	VF' (m^3/kg)
Acetone	10.08	9.73E-05	1.83E+03	1.83E+02
Benzene	10.08	2.06E-03	3.98E+02	3.98E+01
2-Butanone	10.08	4.01E-05	2.85E+03	2.85E+02
Ethylbenzene*	10.08	5.27E-04	7.87E+02	7.87E+01
o-Xylene	10.08	4.06E-04	8.96E+02	8.96E+01
Naphthalene	10.08	4.91E-06	8.15E+03	8.15E+02

Notes:

(1) Da value from Table 15

(2) *COPC for Utility Worker scenario only

(3) VF = Volatilization Factor adjusted for agitation

Table 17a
Non-Cancer Toxicity Data -- Oral/Dermal
Post-Remediation Resident
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Chemical of Potential Concern	Chronic/ Subchronic	Oral RfD Value	Oral RfD Units	GI Absorption Efficiency (%)	Adjusted Dermal RfD (1)	Units	Target Organ or System	Sources of RfD/ Absorption/ Target Organ	Date (2) (MM/DD/YYYY)
Acetone	Chronic	9.0E-01	mg/kg-day	83	NC	mg/kg-day	increased liver/kidney wt, nephrotoxicity	IRIS/ATSDR 1992/IRIS, TACO	02/08/2005
Benzene	Chronic	4.0E-03	mg/kg-day	90	NC	mg/kg-day	decreased lymphocyte count	IRIS/ATSDR 1995/ IRIS, TACO	02/08/2005
2-Butanone	Chronic	6.0E-01	mg/kg-day	80	NC	mg/kg-day	decreased fetal birth rate	IRIS/ATSDR 1992/IRIS, TACO	02/08/2005
Ethylbenzene	Chronic	1.0E-01	mg/kg-day	97	NC	mg/kg-day	liver, kidney toxicity	IRIS/ATSDR 1997/IRIS, TACO	02/08/2005
o-Xylene	Chronic	2.0E-01	mg/kg-day	92	NC	mg/kg-day	CNS, hyperactivity, decreased body weight, increased mortality	IRIS/ATSDR 1995/IRIS, TACO	02/08/2005
Bis(2-ethylhexyl)phthalate	Chronic	2.0E-02	mg/kg-day	NA	2.0E-02	mg/kg-day	increased liver weight and tumors	IRIS/NA/IRIS, TACO	02/08/2005
Carbazole	NA	NA	mg/kg-day	70	NA	mg/kg-day	NA	IRIS/USEPA 1986/IRIS, TACO	02/08/2005
Acenaphthene	Chronic	6.0E-02	mg/kg-day	NA	6.0E-02	mg/kg-day	liver, hepatotoxicity	IRIS/NA/IRIS, TACO	02/08/2005
Acenaphthylene	NA	NA	mg/kg-day	NA	NA	mg/kg-day	NA	IRIS/NA/IRIS, TACO	02/08/2005
Anthracene	Chronic	3.0E-01	mg/kg-day	71	3.0E-01	mg/kg-day	no observed effects	IRIS/ATSDR 1995/IRIS, TACO	02/08/2005
Benzo(a)anthracene	NA	NA	mg/kg-day	100	NA	mg/kg-day	NA	IRIS/ATSDR 1990/IRIS, TACO	02/08/2005
Benzo(b)fluoranthene	NA	NA	mg/kg-day	NA	NA	mg/kg-day	NA	IRIS/ATSDR 1990/IRIS, TACO	02/08/2005
Benzo(k)fluoranthene	NA	NA	mg/kg-day	NA	NA	mg/kg-day	NA	IRIS/NA/IRIS, TACO	02/08/2005
Benzo(g,h,i)perylene	NA	NA	mg/kg-day	NA	NA	mg/kg-day	NA	IRIS/NA/IRIS, TACO	02/08/2005
Benzo(a)pyrene	NA	NA	mg/kg-day	80	NA	mg/kg-day	NA	IRIS/ATSDR 1995/IRIS, TACO	02/08/2005
Chrysene	NA	NA	mg/kg-day	41	NA	mg/kg-day	NA	IRIS/ATSDR 1990/IRIS, TACO	02/08/2005
Dibenzo(a,h)anthracene	NA	NA	mg/kg-day	90	NA	mg/kg-day	NA	IRIS/ATSDR 1990/IRIS, TACO	02/08/2005
Fluoranthene	Chronic	4.0E-02	mg/kg-day	NA	4.0E-02	mg/kg-day	kidney, nephropathy, increased liver wt,	IRIS/NA/IRIS, TACO	02/08/2005
Fluorene	Chronic	4.0E-02	mg/kg-day	NA	4.0E-02	mg/kg-day	circulatory system, decreased RBC, packed cell volume & hemoglobin	IRIS/NA/IRIS, TACO	02/08/2005
Indeno(1,2,3-cd)pyrene	NA	NA	mg/kg-day	NA	NA	mg/kg-day	NA	IRIS/NA/IRIS, TACO	02/08/2005
Naphthalene	Chronic	2.0E-02	mg/kg-day	NA	2.0E-02	mg/kg-day	decreased mean terminal body wt	IRIS/ATSDR 1995/IRIS, TACO	02/08/2005
Phenanthrene	NA	NA	mg/kg-day	97	NA	mg/kg-day	NA	IRIS/ATSDR 1995/IRIS, TACO	02/08/2005
Pyrene	Chronic	3.0E-02	mg/kg-day	92	3.0E-02	mg/kg-day	kidney effects	IRIS/ATSDR 1995/IRIS, TACO	02/08/2005
Beryllium	Chronic	2.0E-03	mg/kg-day	0.7	NC	mg/kg-day	sm. intestinal lesions	IRIS/USEPA 2004c/IRIS, TACO	02/08/2005
Chromium (3)	Chronic	3.0E-03	mg/kg-day	2.5	NC	mg/kg-day	none reported	IRIS/USEPA 2004c/IRIS, TACO	02/08/2005
Copper	Chronic	4.0E-02	mg/kg-day	NA	NC	mg/kg-day	CNS	Region III (5)/USEPA 2004c/IRIS, TACO	02/08/2005
Mercury	NA	NA	mg/kg-day	80	NA	mg/kg-day	immune system	IRIS/USEPA 2004c/IRIS, TACO	02/08/2005
Nickel (4)	Chronic	2.0E-02	mg/kg-day	4	NC	mg/kg-day	decreased body and organ weights	IRIS/USEPA 2004c/IRIS, TACO	02/08/2005
Thallium	Chronic	NA	mg/kg-day	100	NA	mg/kg-day	NA	IRIS/USEPA 2004c/IRIS, TACO	02/08/2005

Notes:

(1) Adjusted Dermal RfD = Oral RfD * GI Absorption Efficiency. VOCs are evaluated in the inhalation exposure routes. No adjustment was performed for PAHs. RAGS Part E excludes all inorganic alanivtes except cadmium and arsenic from calculation of dermal risk (USEPA 2004c).

(2) Date of most recent search of IRIS or morst recent Region III RBC table.

(3) Toxicity value for Chromium VI particulates

(4) Toxicity value for Nickel is for soluble salts.

(5) USEPA Region III RBC Table dated 10/8/2004 provides EPA-NCEA or HEAST value (USEPA 2004b).

USEPA - United States Environmental Protection Agency.

ATSDR - Agency for Toxic Substances and Disease Registry.

IRIS - Integrated Risk Information System.

NA - Not Available.

TACO - Illinois EPA Tiered Approach to Corrective Action Objectives.

CNS - Central nervous system.

NC - Not calculated; excluded from dermal assessment.

Table 17a (Continued)
Cancer Toxicity Data – Oral/Dermal
Post-Remediation Resident
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Chemical of Potential Concern	Oral Cancer Slope Factor	GI Absorption Efficiency (%)	Adjusted Dermal Cancer Slope Factor (1)	Units	Weight of Evidence/ Cancer Guideline Description	Source	Date (2) (MM/DD/YYYY)
Acetone	NA	83	NA	(mg/kg-day) -1	D	IRIS/ATSDR 1992	02/08/2005
Benzene	5.5E-02	90	NC	(mg/kg-day) -1	A	IRIS/ATSDR 1995	02/08/2005
2-Butanone	NA	80	NA	(mg/kg-day) -1	D	IRIS/ATSDR 1992	02/08/2005
Ethylbenzene	NA	1	NA	(mg/kg-day -1	D	IRIS/ATSDR 1997	02/08/2005
o-Xylene	NA	92	NA	(mg/kg-day) -1	D	IRIS/ATSDR 1995	02/08/2005
Bis(2-ethylhexyl)phthalate	1.4E-02	NA	1.4E-02	(mg/kg-day) -1	B2	IRIS	02/08/2005
Carbazole	2.0E-02	70	2.0E-02	(mg/kg-day) -1	NA	IRIS/USEPA Region III/ USEPA 1986 (3)	002/08/2005, 10/8/2004
Acenaphthene	NA	NA	NA	(mg/kg-day) -1	NA	IRIS	02/08/2005
Acenaphthylene	NA	NA	NA	(mg/kg-day) -1	D	IRIS	02/08/2005
Anthracene	NA	71	NA	(mg/kg-day) -1	D	IRIS/ATSDR 1995	02/08/2005
Benzo(a)anthracene	7.3E-01	100	7.3E-01	(mg/kg-day) -1	B2	IRIS/USEPA Region III/ ATSDR 1990 (3)	002/08/2005, 10/8/2004
Benzo(b)fluoranthene	7.3E-01	NA	7.3E-01	(mg/kg-day) -1	B2	IRIS/USEPA Region III/ ATSDR 1990 (3)	002/08/2005, 10/8/2004
Benzo(k)fluoranthene	7.3E-02	NA	7.3E-02	(mg/kg-day) -1	B2	IRIS/USEPA Region III (3)	002/08/2005, 10/8/2004
Benzo(g,h,i)perylene	NA	NA	NA	(mg/kg-day) -1	D	IRIS	02/08/2005
Benzo(a)pyrene	7.3E+00	80	7.3E+00	(mg/kg-day) -1	B2	IRIS/ATSDR 1995	02/08/2005
Chrysene	7.3E-03	41	7.3E-03	(mg/kg-day) -1	B2	IRIS/USEPA Region III/ ATSDR 1990 (3)	002/08/2005, 10/8/2004
Dibenzo(a,h)anthracene	7.3E+00	90	7.3E+00	(mg/kg-day) -1	B2	IRIS/USEPA Region III/ ATSDR 1990 (3)	002/08/2005, 10/8/2004
Fluoranthene	NA	NA	NA	(mg/kg-day) -1	D	IRIS	02/08/2005
Fluorene	NA	NA	NA	(mg/kg-day) -1	D	IRIS/NA	02/08/2005
Indeno(1,2,3-cd)pyrene	7.3E-01	NA	7.3E-01	(mg/kg-day) -1	B2	IRIS/USEPA Region III (3)	002/08/2005, 10/8/2004
Naphthalene	NA	NA	NA	(mg/kg-day) -1	C	IRIS/ATSDR 1995	02/08/2005
Phenanthrene	NA	97	NA	(mg/kg-day) -1	D	IRIS/ATSDR 1995	02/08/2005
Pyrene	NA	92	NA	(mg/kg-day) -1	D	IRIS/ATSDR 1995	02/08/2005
Beryllium	NA	0.7	NA	(mg/kg-day) -1	B1	IRIS/USEPA 2004c	02/08/2005
Chromium	NA	2.5	NA	(mg/kg-day) -1	D	IRIS/USEPA 2004c	02/08/2005
Copper	NA	NA	NA	(mg/kg-day) -1	D	IRIS	02/08/2005
Mercury	NA	80	NA	(mg/kg-day) -1	D	IRIS/USEPA 2004c	02/08/2005
Nickel	NA	4	NA	(mg/kg-day) -1	NA	IRIS/USEPA 2004c	02/08/2005
Thallium	NA	100	NA	(mg/kg-day) -1	NA	IRIS/USEPA 2004c	02/08/2005

Notes:

NA - Not Available.

IRIS - Integrated Risk Information System.

NCEA - National Center for Environmental Assessment.

USEPA - United States Environmental Protection Agency.

ATSDR - Agency for Toxic Substances and Disease Registry.

NC - Not calculated; excluded from dermal assessment.

USEPA Group:

A - Human carcinogen

B1 - Probable human carcinogen - indicates that limited human data are available

B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans

C - Possible human carcinogen

D - Not classifiable as a human carcinogen

(1) Adjusted Dermal SF = Oral SF * GI Absorption Efficiency. Benzene is evaluated in the inhalation exposure routes. No adjustment was performed for PAHs (RAGS Part E, USEPA 2004c).

(2) Date of most recent search of IRIS or most recent Region III RBC table.

(3) USEPA Region III RBC Table dated 10/8/2004 provides EPA-NCEA provisional oral cancer slope factor (USEPA 2004b).

Table 17b
Non-Cancer Toxicity Data -- Inhalation
Post-Remediation Resident
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Chemical of Potential Concern	Chronic/ Subchronic	Value Inhalation RfC	Units	Adjusted Inhalation RfD (1, 2)	Units	Primary Target Organ	Sources of RfC:RfD/ Target Organ	Date (3) (MM/DD/YYYY)
Acetone	NA	NA	mg/m^3	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Benzene	Chronic	3.0E-02	mg/m^3	8.6E-03	mg/kg-day	Decreased lymphocyte count	IRIS/IRIS, TACO	02/08/2005
2-Butanone	Chronic	5.0E+00	mg/m^3	1.4E+00	mg/kg-day	Developmental toxicity (skeletal variations)	IRIS/IRIS, TACO	02/08/2005
Ethylbenzene	Chronic	1.0E+00	mg/m^3	2.9E-01	mg/kg-day	kidney, liver, reproductive system developmental toxicity	IRIS/IRIS, TACO	02/08/2005
o-Xylene	Chronic	1.0E-01	mg/m^3	2.9E-02	mg/kg-day	impaired motor coordination	IRIS/IRIS, TACO	02/08/2005
Bis(2-ethylhexyl)phthalate	NA	NA	mg/m^3	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Carbazole	NA	NA	mg/m^3	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Acenaphthene	NA	NA	mg/m^3	NA	mg/kg-day	liver	IRIS/IRIS, TACO	02/08/2005
Acenaphthylene	NA	NA	mg/m^3	NA	mg/kg-day	NA	IRIS	02/08/2005
Anthracene	NA	NA	mg/m^3	NA	mg/kg-day	NA	IRIS	02/08/2005
Benzo(a)anthracene	NA	NA	mg/m^3	NA	mg/kg-day	NA	IRIS	02/08/2005
Benzo(b)fluoranthene	NA	NA	mg/m^3	NA	mg/kg-day	NA	IRIS	02/08/2005
Benzo(k)fluoranthene	NA	NA	mg/m^3	NA	mg/kg-day	NA	IRIS	02/08/2005
Benzo(g,h,i)perylene	NA	NA	mg/m^3	NA	mg/kg-day	NA	IRIS	02/08/2005
Benzo(a)pyrene	NA	NA	mg/m^3	NA	mg/kg-day	NA	IRIS	02/08/2005
Chrysene	NA	NA	mg/m^3	NA	mg/kg-day	NA	IRIS	02/08/2005
Dibenzo(a,h)anthracene	NA	NA	mg/m^3	NA	mg/kg-day	NA	IRIS	02/08/2005
Fluoranthene	NA	NA	mg/m^3	NA	mg/kg-day	kidney, liver, circulatory system	IRIS/IRIS, TACO	02/08/2005
Fluorene	NA	NA	mg/m^3	NA	mg/kg-day	circulatory system	IRIS/IRIS, TACO	02/08/2005
Indeno(1,2,3-cd)pyrene	NA	NA	mg/m^3	NA	mg/kg-day	NA	IRIS	02/08/2005
Naphthalene	Chronic	3.0E-03	mg/m^3	NC	mg/kg-day	nasal effects, respiratory system	IRIS/IRIS, TACO	02/08/2005
Phenanthrene	NA	NA	mg/m^3	NA	mg/kg-day	NA	IRIS	02/08/2005
Pyrene	NA	NA	mg/m^3	NA	mg/kg-day	kidney	IRIS/IRIS, TACO	02/08/2005
Beryllium	Chronic	2.0E-05	mg/m^3	NC	mg/kg-day	beryllium sensitization	IRIS/IRIS, TACO	02/08/2005
Chromium (4)	Chronic	1.0E-04	mg/m^3	NC	mg/kg-day	lactate dehydrogenase in bronchioalveolar lavage fluid	IRIS/IRIS, TACO	02/08/2005
Copper	NA	NA	mg/m^3	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Mercury	Chronic	3.0E-04	mg/m^3	8.6E-05	mg/kg-day	CNS, tremor, memory loss, autonomic disfunction	IRIS/IRIS, TACO	02/08/2005
Nickel	NA	NA	mg/m^3	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Thallium	NA	NA	mg/m^3	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005

Notes:

(1) Adjusted Inhalation RfD = RfC * ($20m^3$/day / 70 kg).

(2) Inhalation RfC for naphthalene, beryllium and chromium are not converted to inhalation RfD since toxicity is at point of contact rather than systemic.

(3) Date of most recent search of IRIS.

(4) Toxicity value for Chromium VI particulates.

USEPA - United States Environmental Protection Agency.

IRIS - Integrated Risk Information System.

NA - Not Available.

NC - Not Converted.

TACO - Illinois EPA Tiered Approach to Corrective Action Objectives.

CNS - Central nervous system.

Table 17b (Continued)
Cancer Toxicity Data -- Inhalation
Post-Remediation Resident
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Chemical of Potential Concern	Unit Risk	Units	Adjustment (1)	Inhalation Cancer Slope Factor (2)	Units	Weight of Evidence/ Cancer Guideline Description	Source	Date (3) (MM/DD/YYYY)
Acetone	NA	(ug/m3) -1		NA	(mg/kg-day) -1	D	IRIS	02/08/2005
Benzene	7.8E-06	(ug/m3) -1	3,500	2.7E-02	(mg/kg-day) -1	A	IRIS	02/08/2005
2-Butanone	NA	(ug/m3) -1		NA	(mg/kg-day) -1	D	IRIS	02/08/2005
Ethylbenzene	NA	(ug/m3) -1		NA	(mg/kg-day) -1	D	IRIS	02/08/2005
o-Xylene	NA	(ug/m3) -1		NA	(mg/kg-day) -1	D	IRIS	02/08/2005
Bis(2-ethylhexyl)phthalate	NA	(ug/m3) -1		NA	(mg/kg-day) -1	B2	IRIS	02/08/2005
Carbazole	NA	(ug/m3) -1		NA	(mg/kg-day) -1	NA	IRIS	02/08/2005
Acenaphthene	NA	(ug/m3) -1		NA	(mg/kg-day) -1	NA	IRIS	02/08/2005
Acenaphthylene	NA	(ug/m3) -1		NA	(mg/kg-day) -1	D	IRIS	02/08/2005
Anthracene	NA	(ug/m3) -1		NA	(mg/kg-day) -1	D	IRIS	02/08/2005
Benzo(a)anthracene	8.8E-05	(ug/m3) -1		NC	(mg/kg-day) -1	B2	IRIS/Region III (4)	002/08/2005, 10/08/2004
Benzo(b)fluoranthene	8.8E-05	(ug/m3) -1		NC	(mg/kg-day) -1	B2	IRIS/Region III (4)	002/08/2005, 10/08/2004
Benzo(k)fluoranthene	8.8E-06	(ug/m3) -1		NC	(mg/kg-day) -1	B2	IRIS/Region III (4)	002/08/2005, 10/08/2004
Benzo(g,h,i)perylene	NA	(ug/m3) -1		NA	(mg/kg-day) -1	D	IRIS	02/08/2005
Benzo(a)pyrene	8.8E-04	(ug/m3) -1		NC	(mg/kg-day) -1	B2	IRIS/Region III (4)	002/08/2005, 10/08/2004
Chrysene	8.8E-07	(ug/m3) -1		NC	(mg/kg-day) -1	B2	IRIS/Region III (4)	002/08/2005, 10/08/2004
Dibenzo(a,h)anthracene	8.8E-04	(ug/m3) -1		NC	(mg/kg-day) -1	B2	IRIS/Region III (4)	002/08/2005, 10/08/2004
Fluoranthene	NA	(ug/m3) -1		NA	(mg/kg-day) -1	D	IRIS	02/08/2005
Fluorene	NA	(ug/m3) -1		NA	(mg/kg-day) -1	D	IRIS	02/08/2005
Indeno(1,2,3-cd)pyrene	8.8E-05	(ug/m3) -1		NC	(mg/kg-day) -1	B2	IRIS/Region III (4)	002/08/2005, 10/08/2004
Naphthalene	NA	(ug/m3) -1		NA	(mg/kg-day) -1	C	IRIS	02/08/2005
Phenanthrene	NA	(ug/m3) -1		NA	(mg/kg-day) -1	D	IRIS	02/08/2005
Pyrene	NA	(ug/m3) -1		NA	(mg/kg-day) -1	D	IRIS	02/08/2005
Beryllium	2.4E-03	(ug/m3) -1		NC	(mg/kg-day) -1	B1	IRIS	02/08/2005
Chromium	1.2E-02	(ug/m3) -1		NC	(mg/kg-day) -1	A	IRIS	02/08/2005
Copper	NA	(ug/m3) -1		NA	(mg/kg-day) -1	D	IRIS	02/08/2005
Mercury	NA	(ug/m3) -1		NA	(mg/kg-day) -1	D	IRIS	02/08/2005
Nickel	NA	(ug/m3) -1		NA	(mg/kg-day) -1	NA	IRIS	02/08/2005
Thallium	NA	(ug/m3) -1		NA	(mg/kg-day) -1	NA	IRIS	02/08/2005

NOTES:

NA - Not Available.

IRIS - Integrated Risk Information System.

USEPA - United States Environmental Protection Agency.

NC - Not Converted.

(1) Adjustment Factor applied to Unit Risk to calculate Inhalation Slope Factor.
= 70kg x 1/20m^3/day x 1000ug/mg.

(2) Unit risk for carcinogenic PAHs, naphthalene, beryllium and chromium are not converted to slope factor since toxicity is at point of contact rather than systemic.

(3) Date of most recent search of IRIS or most recent Region III RBC table.

(4) USEPA Region III RBC Table dated 10/08/2004 provides USEPA-NCEA provisional inhalation UR for benzo(a)pyrene (USEPA 2004b). Other carcinogenic PAH URs are calculated using benzo(a)pyrene toxicity equivalency values.

USEPA Group:

A - Human carcinogen

B1 - Probable human carcinogen - indicates that limited human data are available

B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans

C - Possible human carcinogen

D - Not classifiable as a human carcinogen

E - Evidence of noncarcinogenicity

Table 18a
Noncancer Toxicity Data -- Oral/Dermal
Post-Remediation Utility Worker and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Chemical of Potential Concern	Chronic/ Subchronic	Oral RfD Value	Oral RfD Units	GI Absorption Efficiency (%)	Adjusted Dermal RfD (1)	Units	Target Organ or System	Sources of RfD/ Absorption/ Target Organ	Date (2) (MM/DD/YYYY)
Acetone	Subchronic	1.0E+00	mg/kg-day	83	NC	mg/kg-day	increased liver/kidney wt, nephrotoxicity	HEAST/ATSDR 1992/IRIS, TACO	July 1997
Benzene	Chronic	4.0E-03	mg/kg-day	90	NC	mg/kg-day	NA	IRIS/ATSDR 1995/ IRIS, TACO	02/08/2005
2-Butanone	Subchronic	2.0E+00	mg/kg-day	80	NC	mg/kg-day	decreased fetal birth rate	HEAST/ATSDR 1992/IRIS, TACO	July 1997
Ethylbenzene	Chronic	1.0E-01	mg/kg-day	92	NC	mg/kg-day	liver, kidney toxicity	IRIS/ATSDR 1997/IRIS, TACO	02/08/2005
o-Xylene	Chronic	2.0E-01	mg/kg-day	92	NC	mg/kg-day	CNS, hyperactivity, decreased body weight, increased mortality	IRIS/ATSDR 1995/IRIS, TACO	02/08/2005
Bis(2-ethylhexyl)phthalate	Chronic	2.00E-02	mg/kg-day	NA	2.0E-02	mg/kg-day	increased liver weight and tumors	IRIS/NA/IRIS, TACO	02/08/2005
Carbazole	NA	NA	mg/kg-day	70	NA	mg/kg-day	NA	IRIS/USEPA 1986/IRIS, TACO	02/08/2005
Acenaphthene	Subchronic	6.0E-01	mg/kg-day	NA	6.0E-01	mg/kg-day	liver, hepatotoxicity	HEAST/NA/IRIS, TACO	July 1997
Acenaphthylene	NA	NA	mg/kg-day	NA	NA	mg/kg-day	NA	IRIS/NA/IRIS, TACO	02/08/2005
Anthracene	Subchronic	3.0E+00	mg/kg-day	71	3.0E+00	mg/kg-day	no observed effects	HEAST/ATSDR 1995/IRIS, TACO	July 1997
Benzo(a)anthracene	NA	NA	mg/kg-day	100	NA	mg/kg-day	NA	IRIS/ATSDR 1990/IRIS, TACO	02/08/2005
Benzo(b)fluoranthene	NA	NA	mg/kg-day	NA	NA	mg/kg-day	NA	IRIS/ATSDR 1990/IRIS, TACO	02/08/2005
Benzo(k)fluoranthene	NA	NA	mg/kg-day	NA	NA	mg/kg-day	NA	IRIS/NA/IRIS, TACO	02/08/2005
Benzo(g,h,i)perylene	NA	NA	mg/kg-day	NA	NA	mg/kg-day	NA	IRIS/NA/IRIS, TACO	02/08/2005
Benzo(a)pyrene	NA	NA	mg/kg-day	80	NA	mg/kg-day	NA	IRIS/ATSDR 1995/IRIS, TACO	02/08/2005
Chrysene	NA	NA	mg/kg-day	41	NA	mg/kg-day	NA	IRIS/ATSDR 1990/IRIS, TACO	02/08/2005
Dibenzo(a,h)anthracene	NA	NA	mg/kg-day	90	NA	mg/kg-day	NA	IRIS/ATSDR 1990/IRIS, TACO	02/08/2005
Fluoranthene	Subchronic	4.0E-01	mg/kg-day	NA	4.0E-01	mg/kg-day	kidney, nephropathy, increased liver wt, hematological alterations & clinical effects	HEAST/NA/IRIS, TACO	July 1997
Fluorene	Subchronic	4.0E-01	mg/kg-day	NA	4.0E-01	mg/kg-day	circulatory system, decreased RBC, packed cell volume & hemoglobin	HEAST/NA/IRIS, TACO	July 1997
Indeno(1,2,3-cd)pyrene	NA	NA	mg/kg-day	NA	NA	mg/kg-day	NA	IRIS/NA/IRIS, TACO	02/08/2005
Naphthalene	Chronic	2.0E-02	mg/kg-day	NA	2.0E-02	mg/kg-day	decreased mean terminal body wt	IRIS/ATSDR 1995/IRIS, TACO	02/08/2005
Phenanthrene	NA	NA	mg/kg-day	97	NA	mg/kg-day	NA	IRIS/ATSDR 1995/IRIS, TACO	02/08/2005
Pyrene	Subchronic	3.0E-01	mg/kg-day	92	3.0E-01	mg/kg-day	kidney effects	HEAST/ATSDR 1995/IRIS, TACO	July 1997
Arsenic	Chronic/ Subchronic	3.0E-04	mg/kg-day	95	2.9E-04	mg/kg-day	Hyperpigmentation, keratosis and possible vascular complications	IRIS, HEAST/USEPA 2004c/IRIS, TACO	July 1997
Beryllium	Chronic/ Subchronic	5.0E-03	mg/kg-day	0.7	NC	mg/kg-day	sm. intestinal lesions	HEAST/USEPA 2004c/IRIS, TACO	July 1997
Cadmium	Chronic	1.0E-03	mg/kg-day	2.5	2.5E-05	mg/kg-day	kidney	IRIS/USEPA 2004c/IRIS, TACO	02/08/2005
Chromium (3)	Subchronic	2.0E-02	mg/kg-day	2.5	NC	mg/kg-day	none reported	HEAST/USEPA 2004c/IRIS, TACO	July 1997
Copper	Chronic	4.0E-02	mg/kg-day	NA	NC	mg/kg-day	NA	HEAST/NA/IRIS, TACO	July 1997
Lead	NA	NA	mg/kg-day	NA	NA	mg/kg-day	NA	IRIS/NA/IRIS, TACO	02/08/2005
Mercury	NA	NA	mg/kg-day	80	NA	mg/kg-day	immune system	IRIS/USEPA 2004c/IRIS, TACO	02/08/2005
Nickel (4)	Chronic/ Subchronic	2.0E-02	mg/kg-day	4	NC	mg/kg-day	decreased body and organ weights	IRIS, HEAST/USEPA 2004c/IRIS, TACO	2/8/2005, July 1997
Thallium	Chronic	NA	mg/kg-day	100	NA	mg/kg-day	NA	IRIS/USEPA 2004c/IRIS, TACO	02/08/2005

Notes:

(1) Adjusted Dermal RfD = Oral RfD * GI Absorption Efficiency. VOCs are evaluated in the inhalation exposure routes. No adjustment was performed for PAHs. RAGS Part E excludes all inorganic analytes except cadmium and arsenic from calculation of dermal risk (USEPA 2004c).

(2) Date of most recent search of IRIS.

(3) Toxicity value for Chromium VI particulates

(4) Toxicity value for Nickel is for soluble salts.

USEPA - United States Environmental Protection Agency.

ATSDR - Agency for Toxic Substances and Disease Registry.

IRIS - Integrated Risk Information System.

NA - Not Available.

TACO - Illinois EPA Tiered Approach to Corrective Action Objectives.

CNS - Central nervous system.

HEAST - Health Effects Assessment Summary Table.

NC - Not calculated; excluded from dermal assessment.

Table 18a (Continued)
Cancer Toxicity Data -- Oral/Dermal
Post-Remediation Utility Worker and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Chemical of Potential Concern	Oral Cancer Slope Factor	GI Absorption Efficiency (%)	Adjusted Dermal Cancer Slope Factor (1)	Units	Weight of Evidence/ Cancer Guideline Description	Source	Date (2) (MM/DD/YY)
Acetone	NA	83	NA	(mg/kg-day) $^{-1}$	D	IRIS/ATSDR 1992	02/08/2005
Benzene	5.5E-02	90	NC	(mg/kg-day) $^{-1}$	A	IRIS/ATSDR 1995	02/08/2005
2-Butanone	NA	80	NA	(mg/kg-day) $^{-1}$	D	IRIS/ATSDR 1992	02/08/2005
Ethylbenzene	NA	92	NA	(mg/kg-day) $^{-1}$	D	IRIS/ATSDR 1997	02/08/2005
o-Xylene	NA	92	NA	(mg/kg-day) $^{-1}$	D	IRIS/ATSDR 1995	02/08/2005
Bis(2-ethylhexyl)phthalate	1.4E-02	NA	1.4E-02	(mg/kg-day) $^{-1}$	B2	IRIS	02/08/2005
Carbazole	2.0E-02	70	2.0E-02	(mg/kg-day) $^{-1}$	NA	USEPA Region III/ USEPA 1986 (3)	10/08/2004
Acenaphthene	NA	NA	NA	(mg/kg-day) $^{-1}$	NA	IRIS	02/08/2005
Acenaphthylene	NA	NA	NA	(mg/kg-day) $^{-1}$	D	IRIS	02/08/2005
Anthracene	NA	71	NA	(mg/kg-day) $^{-1}$	D	IRIS/ATSDR 1995	02/08/2005
Benzo(a)anthracene	7.3E-01	100	7.3E-01	(mg/kg-day) $^{-1}$	B2	IRIS/USEPA Region III/ ATSDR 1990(3)	002/08/2005, 10/8/2004
Benzo(b)fluoranthene	7.3E-01	NA	7.3E-01	(mg/kg-day) $^{-1}$	B2	IRIS/USEPA Region III/ ATSDR 1990(3)	002/08/2005, 10/8/2004
Benzo(k)fluoranthene	7.3E-02	NA	7.3E-02	(mg/kg-day) $^{-1}$	B2	IRIS/USEPA Region III (3)	002/08/2005, 10/8/2004
Benzo(g,h,i)perylene	NA	NA	NA	(mg/kg-day) $^{-1}$	D	IRIS	02/08/2005
Benzo(a)pyrene	7.3E+00	80	7.3E+00	(mg/kg-day) $^{-1}$	B2	IRIS/ATSDR 1995	02/08/2005
Chrysene	7.3E-03	41	7.3E-03	(mg/kg-day) $^{-1}$	B2	IRIS/USEPA Region III/ ATSDR 1990(3)	002/08/2005, 10/8/2004
Dibenzo(a,h)anthracene	7.3E+00	90	7.3E+00	(mg/kg-day) $^{-1}$	B2	IRIS/USEPA Region III/ ATSDR 1990(3)	002/08/2005, 10/8/2004
Fluoranthene	NA	NA	NA	(mg/kg-day) $^{-1}$	D	IRIS	02/08/2005
Fluorene	NA	NA	NA	(mg/kg-day) $^{-1}$	D	IRIS/NA	02/08/2005
Indeno(1,2,3-cd)pyrene	7.3E-01	NA	7.3E-01	(mg/kg-day) $^{-1}$	B2	IRIS/USEPA Region III (3)	002/08/2005, 10/8/2004
Naphthalene	NA	NA	NA	(mg/kg-day) $^{-1}$	C	IRIS/ATSDR 1995	02/08/2005
Phenanthrene	NA	97	NA	(mg/kg-day) $^{-1}$	D	IRIS/ATSDR 1995	02/08/2005
Pyrene	NA	92	NA	(mg/kg-day) $^{-1}$	D	IRIS/ATSDR 1995	02/08/2005
Arsenic	1.5E+00	95	1.6E+00	(mg/kg-day) $^{-1}$	A	IRIS/USEPA 2004c	02/08/2005
Beryllium	NA	0.7	NA	(mg/kg-day) $^{-1}$	B1	IRIS/USEPA 2004c	02/08/2005
Cadmium	NA	2.5	NA	(mg/kg-day) $^{-1}$	B1	IRIS/USEPA 2004c	02/08/2005
Chromium	NA	2.5	NA	(mg/kg-day) $^{-1}$	D	IRIS/USEPA 2004c	02/08/2005
Copper	NA	NA	NA	(mg/kg-day) $^{-1}$	D	IRIS	02/08/2005
Lead	NA	NA	NA	(mg/kg-day) $^{-1}$	B2	IRIS	02/08/2005
Mercury	NA	80	NA	(mg/kg-day) $^{-1}$	D	IRIS/USEPA 2004c	02/08/2005
Nickel	NA	4	NA	(mg/kg-day) $^{-1}$	NA	IRIS/USEPA 2004c	02/08/2005
Thallium	NA	100	NA	(mg/kg-day) $^{-1}$	NA	IRIS/USEPA 2004c	02/08/2005

Notes:

NA - Not Available.

IRIS - Integrated Risk Information System.

NCEA - National Center for Environmental Assessment.

USEPA - United States Environmental Protection Agency.

ATSDR - Agency for Toxic Substances and Disease Registry.

NC - Not calculated; excluded from dermal assessment.

USEPA Group:

A - Human carcinogen

B1 - Probable human carcinogen - indicates that limited human data are available

B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans

C - Possible human carcinogen

D - Not classifiable as a human carcinogen

(1) Adjusted Dermal SF = Oral SF * GI Absorption Efficiency. Benzene is evaluated in the inhalation exposure routes. No adjustment was performed for PAHs (RAGS Part E, USEPA 2004c).

(2) Date of most recent search of IRIS or most recent EPA-NCEA provisional value.

(3) USEPA Region III RBC Table dated 10/8/2004 provides EPA-NCEA provisional or HEAST oral cancer slope factor (USEPA 2004b).

Table 18b
Noncancer Toxicity Data -- Inhalation
Post-Remediation Utility Worker and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Chemical of Potential Concern	Chronic/ Subchronic	Value Inhalation RfC	Units	Adjusted Inhalation RfD (1, 2)	Units	Primary Target Organ	Sources of RfC:RfD/ Target Organ	Date (3) (MM/DD/YYYY)
Acetone	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Benzene	Chronic	3.0E-02	mg/m³	8.6E-03	mg/kg-day	decreased fetal birth rate	IRIS/IRIS, TACO	02/08/2005
2-Butanone	Subchronic	1.0E+00	mg/m³	2.9E-01	mg/kg-day	Developmental toxicity (skeletal variations)	HEAST/IRIS, TACO	July 1997
Ethylbenzene	Chronic	1.0E+00	mg/m³	2.9E-01	mg/kg-day	kidney, liver, reproductive system, developmental toxicity	IRIS/IRIS, TACO	02/08/2005
o-Xylene	Chronic	1.0E-01	mg/m³	2.9E-02	mg/kg-day	impaired motor coordination	IRIS/IRIS, TACO	02/08/2005
Bis(2-ethylhexyl)phthalate	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Carbazole	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Acenaphthene	NA	NA	mg/m³	NA	mg/kg-day	liver	IRIS/IRIS, TACO	02/08/2005
Acenaphthylene	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Anthracene	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Benzo(a)anthracene	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Benzo(b)fluoranthene	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Benzo(k)fluoranthene	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Benzo(g,h,i)perylene	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Benzo(a)pyrene	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Chrysene	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Dibenzo(a,h)anthracene	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Fluoranthene	NA	NA	mg/m³	NA	mg/kg-day	kidney, liver, circulatory system	IRIS/IRIS, TACO	02/08/2005
Fluorene	NA	NA	mg/m³	NA	mg/kg-day	circulatory system	IRIS/IRIS, TACO	02/08/2005
Indeno(1,2,3-cd)pyrene	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Naphthalene	Chronic	3.0E-03	mg/m³	NC	mg/kg-day	nasal effects, respiratory system	IRIS/IRIS, TACO	02/08/2005
Phenanthrene	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Pyrene	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Arsenic	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Beryllium	Chronic	2.0E-05	mg/m³	NC	mg/kg-day	beryllium sensitization	IRIS/IRIS, TACO	02/08/2005
Cadmium	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Chromium (4)	Chronic	1.0E-04	mg/m³	NC	mg/kg-day	lactate dehydrogenase in bronchioalveolar lavage fluid	IRIS/IRIS, TACO	02/08/2005
Copper	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Lead	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Mercury	Chronic/ Subchronic	3.0E-04	mg/m³	8.6E-05	mg/kg-day	CNS, tremor, memory loss, autonomic disfunction	RIS, HEAST/IRIS, TACO	002/08/2005, July 1997
Nickel	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005
Thallium	NA	NA	mg/m³	NA	mg/kg-day	NA	IRIS/IRIS, TACO	02/08/2005

Notes:

(1) Adjusted Inhalation RfD = RfC * (20m³/day / 70 kg).

(2) Inhalation RfC for naphthalene, beryllium and chromium are not converted to inhalation RfD since toxicity is at point of contact rather than systemic.

(3) Date of most recent search of IRIS.

(4) Toxicity value for Chromium VI particulates.

USEPA - United States Environmental Protection Agency.

IRIS - Integrated Risk Information System.

NA - Not Available.

NC - Not Converted.

TACO - Illinois EPA Tiered Approach to Corrective Action Objectives.

CNS - Central nervous system.

HEAST - Health Effects Assessment Summary Table.

Table 18b (Continued)
Cancer Toxicity Data -- Inhalation
Post-Remediation Utility Worker and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Chemical of Potential Concern	Unit Risk	Units	Adjustment (1)	Inhalation Cancer Slope Factor (2)	Units	Weight of Evidence/ Cancer Guideline Description	Source	Date (3) (MM/DD/YYYY)
Acetone	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	D	IRIS	02/08/2005
Benzene	7.8E-06	(ug/m3) $^{-1}$	3,500	2.7E-02	(mg/kg-day) $^{-1}$	A	IRIS	02/08/2005
2-Butanone	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	D	IRIS	02/08/2005
Ethylbenzene	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	D	IRIS	02/08/2005
o-Xylene	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	D	IRIS	02/08/2005
Bis(2-ethylhexyl)phthalate	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	B2	IRIS	02/08/2005
Carbazole	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	NA	IRIS	02/08/2005
Acenaphthene	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	NA	IRIS	02/08/2005
Acenaphthylene	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	D	IRIS	02/08/2005
Anthracene	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	D	IRIS	02/08/2005
Benzo(a)anthracene	8.8E-05	(ug/m3) $^{-1}$		NC	(mg/kg-day) $^{-1}$	B2	IRIS/Region III (4)	002/08/2005, 10/8/2004
Benzo(b)fluoranthene	8.8E-05	(ug/m3) $^{-1}$		NC	(mg/kg-day) $^{-1}$	B2	IRIS/Region III (4)	002/08/2005, 10/8/2004
Benzo(k)fluoranthene	8.8E-06	(ug/m3) $^{-1}$		NC	(mg/kg-day) $^{-1}$	B2	IRIS/Region III (4)	002/08/2005, 10/8/2004
Benzo(g,h,i)perylene	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	D	IRIS	02/08/2005
Benzo(a)pyrene	8.8E-04	(ug/m3) $^{-1}$		NC	(mg/kg-day) $^{-1}$	B2	IRIS/Region III (4)	002/08/2005, 10/8/2004
Chrysene	8.8E-07	(ug/m3) $^{-1}$		NC	(mg/kg-day) $^{-1}$	B2	IRIS/Region III (4)	002/08/2005, 10/8/2004
Dibenzo(a,h)anthracene	8.8E-04	(ug/m3) $^{-1}$		NC	(mg/kg-day) $^{-1}$	B2	IRIS/Region III (4)	002/08/2005, 10/8/2004
Fluoranthene	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	D	IRIS	02/08/2005
Fluorene	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	D	IRIS	02/08/2005
Indeno(1,2,3-cd)pyrene	8.8E-05	(ug/m3) $^{-1}$		NC	(mg/kg-day) $^{-1}$	B2	IRIS/Region III (4)	002/08/2005, 10/8/2004
Naphthalene	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	C	IRIS	02/08/2005
Phenanthrene	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	D	IRIS	02/08/2005
Pyrene	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	D	IRIS	02/08/2005
Arsenic	4.3E-03	(ug/m3) $^{-1}$		NC	(mg/kg-day) $^{-1}$	A	IRIS	02/08/2005
Beryllium	2.4E-03	(ug/m3) $^{-1}$		NC	(mg/kg-day) $^{-1}$	B1	IRIS	02/08/2005
Cadmium	1.8E-03	(ug/m3) $^{-1}$		NC	(mg/kg-day) $^{-1}$	B1	IRIS	02/08/2005
Chromium (4)	1.2E-02	(ug/m3) $^{-1}$		NC	(mg/kg-day) $^{-1}$	A	IRIS	02/08/2005
Copper	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	D	IRIS	02/08/2005
Lead	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	B2	IRIS	02/08/2005
Mercury	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	D	IRIS	02/08/2005
Nickel (5)	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	NA	IRIS	02/08/2005
Thallium	NA	(ug/m3) $^{-1}$		NA	(mg/kg-day) $^{-1}$	NA	IRIS	02/08/2005

NOTES:

NA - Not Available.

IRIS - Integrated Risk Information System.

USEPA - United States Environmental Protection Agency.

NC - Not Converted.

(1) Adjustment Factor applied to Unit Risk to calculate Inhalation Slope Factor.
= 70kg x 1/20m^3/day x 1000ug/mg.

(2) Unit risk for carcinogenic PAHs, naphthalene, beryllium, cadmium and chromium are not converted to slope factor since toxicity is at point of contact rather than systemic.

(3) Date of most recent search of IRIS or most recent EPA-NCEA provisional value.

(4) USEPA Region III RBC Table dated 10/08/2004 provides USEPA-NCEA provisional inhalation UR for benzo(a)pyrene (USEPA 2004b). Other carcinogenic PAH URs are calculated using benzo(a)pyrene toxicity equivalency values.

USEPA Group:

A - Human carcinogen

B1 - Probable human carcinogen - indicates that limited human data are available

B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans

C - Possible human carcinogen

D - Not classifiable as a human carcinogen

E - Evidence of noncarcinogenicity

Table 19a
Values Used For Daily Intake Calculations
Post-Remediation Adult Resident
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Surface/Subsurface Soil*
Exposure Point: Surface Soil*
Receptor Population: Resident
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	CT Value	CT Rationale/ Reference	Intake Equation
Ingestion	CS	Chemical Concentration in Soil	mg/kg	See Tables 9 and 10	See Tables 9 and 10	See Tables 9 and 10	See Tables 9 and 10	Daily Intake (DI) (mg/kg-day) =
	IR	Ingestion Rate of Soil	mg/day	100	USEPA 1997a	50	USEPA 1997a	CS x IR x EF x ED x FI x CF x 1/BW x 1/AT
	FI	Fraction Ingested	--	1	USEPA 1989	1	USEPA 1989	
	EF	Exposure Frequency	days/year	350	USEPA 1991	350	USEPA 1991	
	ED	Exposure Duration	years	24	USEPA 1991	7	USEPA 1993	
	CF	Conversion Factor (mg to kg)	kg/mg	1E-06	--	1E-06	--	
	BW	Body Weight	kg	70	USEPA 1991	70	USEPA 1991	
	ATc	Averaging Time (Cancer)	days	25,550	USEPA 1991	25,550	USEPA 1991	
	ATn	Averaging Time (Non-Cancer)	days	10,950	USEPA 1991	3,285	USEPA 1991	
Dermal	CS	Chemical Concentration in Soil	mg/kg	See Tables 9 and 10	See Tables 9 and 10	See Tables 9 and 10	See Tables 9 and 10	DI (mg/kg-day) =
	CF	Conversion Factor (mg to kg)	kg/mg	1E-06	--	1E-06	--	CS x SA x CF x AF x ABS x EF x ED x 1/BW x 1/AT
	AF	Soil to Skin Adherence Factor	mg/cm^2	0.07	USEPA 2004c	0.01	USEPA 2004c	
	ABS	Absorption Factor	--	Chemical Specific See Tables 21 and 29	USEPA 2004c	Chemical Specific See Table 25 and 33	USEPA 2004c	
	SA	Skin Surface Area Available for Contact	cm^2	5,700	USEPA 2004c	5,700	USEPA 2004c	
	EF	Exposure Frequency	days/years	350	USEPA 1991	350	USEPA 1991	
	ED	Exposure Duration	years	24	USEPA 1991	7	USEPA 1993	
	BW	Body Weight	kg	70	USEPA 1991	70	USEPA 1991	
	ATc	Averaging Time (Cancer)	days	25,550	USEPA 1991	25,550	USEPA 1991	
	ATn	Averaging Time (Non-Cancer)	days	10,950	USEPA 1991	3,285	USEPA 1991	

Note:

(1) * For future resident scenario, subsurface soil is assumed potentially to be redistributed to the surface.

SOURCES:

USEPA 1989: Risk Assessment Guidance for Superfund. Vol.1: Human Health Evaluation Manual (Part A). Interim Final. EPA/540/1-89/002, December.

USEPA 1991: Risk Assessment Guidance for Superfund. Vol.1: Human Health Evaluation Manual - Supplemental Guidance, Standard Default Exposure Factors. Interim Final. OSWER Directive 9285.6-03, March 15.

USEPA 1993: Superfund's Standard Default Exposure Factors for the Central Tendency and Reasonable Maximum Exposure, November 4.

USEPA 1997a: Exposure Factors Handbook: Volume I - General Factors, August.

USEPA 2004c: Risk Assessment Guidance for Superfund. Vol.1: Human Health Evaluation Manual Part E - Supplemental Guidance for Dermal Risk Assessment, Final. OSWER Directive 9285.7-02EP, July.

Table 19a (Continued)
Values Used For Daily Intake Calculations
Post-Remediation Adult Resident
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Surface/Subsurface Soil*
Exposure Point: Surface Soil*
Receptor Population: Resident
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	CT Value	CT Rationale/ Reference	Intake Equation
Inhalation of	CS	COPC Concentration in Soil	mg/kg	See Tables 9 and 10	See Tables 9 and 10	See Tables 9 and 10	See Tables 9 and 10	DI (mg/kg-day) =
Fugitive Dust	IR	Inhalation Rate	m^3/day	15.2	USEPA 1991	20	USEPA 1991	CS x IR x EF x ED/BW x AT x PEF
	PEF	Particulate Emission Factor	m^3/kg	1.32E+09	IAC 2002	1.32E+09	IAC 2002	
	EF	Exposure Frequency	days/year	350	USEPA 1991	350	USEPA 1991	DI for use with RfC/UR (mg/m^3) =
	ED	Exposure Duration	years	24	USEPA 1991	7	USEPA 1993	CS x EF x ED/AT x PEF
	BW	Body Weight	kg	70	USEPA 1991	70	USEPA 1991	
	ATc	Averaging Time (Cancer)	days	25,550	USEPA 1991	25,550	USEPA 1991	
	ATn	Averaging Time (Non-Cancer)	days	10,950	USEPA 1991	3,285	USEPA 1991	
Inhalation of	CS	COPC Concentration in Soil	mg/kg	See Tables 9 and 10	See Tables 9 and 10	See Tables 9 and 10	See Tables 9 and 10	DI (mg/kg-day) =
Chemicals	VF	Volatilazion Factor	m^3/kg	See Table 14	See Tables 13 and 14	See Table 14	See Tables 13 and 14	CS x IR x EF x ED/(BW x AT x VF)
in Vapor	IR	Inhalation Rate	m^3/day	15.2	USEPA 1991	20	USEPA 1991	
Phase	EF	Exposure Frequency	days/year	350	USEPA 1991	350	USEPA 1991	DI for use with RfC/UR (mg/m^3) =
	ED	Exposure Duration	years	24	USEPA 1991	7	USEPA 1993	CS x EF x ED/(AT x VF)
	BW	Body Weight	kg	70	USEPA 1991	70	USEPA 1991	
	ATc	Averaging Time (Cancer)	days	25,550	USEPA 1991	25,550	USEPA 1991	
	ATn	Averaging Time (Non-Cancer)	days	10,950	USEPA 1991	3,285	USEPA 1991	

Note:

(1) * For future resident scenario, subsurface soil is assumed potentially to be redistributed to the surface.

SOURCES:

Illinois Administrative Code (IAC), 2002: Title 35: Environmental Protection, Subtitle G, Chapter I, Pollution Control Board, Subchapter f, Part 742: Tiered Approach to Corrective Action Objectives (TACO), Appendix C, Table B, February.

USEPA 1991: Risk Assessment Guidance for Superfund. Vol.1: Human Health Evaluation Manual - Supplemental Guidance, Standard Default Exposure Factors. Interim Final. OSWER Directive 9285.6-03, March 15.

USEPA 1993: Superfund's Standard Default Exosure Factors for the Central Tendency and Reasonable Maximum Exposure, November 4.

USEPA 1997a: Exposure Factors Handbook: Volume 1 - General Factors, August.

Table 19b
Values Used For Daily Intake Calculations
Post-Remediation Child Resident
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Surface/Subsurface Soil*
Exposure Point: Surface Soil*
Receptor Population: Resident
Receptor Age: Child

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	CT Value	CT Rationale/ Reference	Intake Equation
Ingestion	CS	Chemical Concentration in Soil	mg/kg	See Tables 9 and 10	See Tables 9 and 10	See Tables 9 and 10	See Tables 9 and 10	Daily Intake (DI) (mg/kg-day) =
	IR	Ingestion Rate of Soil	mg/day	200	USEPA 1991	100	USEPA 1993	CS x IR x EF x ED x FI x CF x 1/BW x 1/AT
	FI	Fraction Ingested	--	1	USEPA 1989	1	USEPA 1989	
	EF	Exposure Frequency	days/year	350	USEPA 1991	350	USEPA 1991	
	ED	Exposure Duration	years	6	USEPA 1991	2	USEPA 1993	
	CF	Conversion Factor (mg to kg)	kg/mg	1E-06	--	1E-06	--	
	BW	Body Weight	kg	15	USEPA 1991	15	USEPA 1991	
	ATc	Averaging Time (Cancer)	days	25,550	USEPA 1991	25,550	USEPA 1991	
	ATn	Averaging Time (Non-Cancer)	days	10,950	USEPA 1991	3,285	USEPA 1991	
Dermal	CS	Chemical Concentration in Soil	mg/kg	See Tables 9 and 10	See Tables 9 and 10	See Tables 9 and 10	See Tables 9 and 10	DI (mg/kg-day) =
	CF	Conversion Factor (mg to kg)	kg/mg	1E-06	--	1E-06	--	CS x SA x CF x AF x ABS x EF x ED x 1/BW x 1/AT
	AF	Soil to Skin Adherence Factor	mg/cm^2	0.2	USEPA 2004c	0.04	USEPA 2004c	
	ABS	Absorption Factor	--	Chemical Specific See Tables 21 and 29	USEPA 2004c	Chemical Specific See Table 25 and 33	USEPA 2004c	
	SA	Skin Surface Area Available for Contact	cm^2	2,800	USEPA 2004c	2,800	USEPA 2004c	
	EF	Exposure Frequency	days/years	350	USEPA 1991	350	USEPA 1991	
	ED	Exposure Duration	years	6	USEPA 1991	2	USEPA 1993	
	BW	Body Weight	kg	15	USEPA 1991	15	USEPA 1991	
	ATc	Averaging Time (Cancer)	days	25,550	USEPA 1991	25,550	USEPA 1991	
	ATn	Averaging Time (Non-Cancer)	days	10,950	USEPA 1991	3,285	USEPA 1991	

Note:

(1) * For future resident scenario, subsurface soil is assumed potentially to be redistributed to the surface.

SOURCES:

USEPA 1989: Risk Assessment Guidance for Superfund. Vol.1: Human Health Evaluation Manual (Part A). Interim Final. EPA/540/1-89/002, December.

USEPA 1991: Risk Assessment Guidance for Superfund. Vol.1: Human Health Evaluation Manual - Supplemental Guidance, Standard Default Exposure Factors. Interim Final. OSWER Directive 9285.6-03, March 15.

USEPA 1993: Superfund's Standard Default Exposure Factors for the Central Tendency and Reasonable Maximum Exposure, November 4.

USEPA 1997a: Exposure Factors Handbook: Volume I - General Factors, August.

USEPA 2004c: Risk Assessment Guidance for Superfund. Vol.1: Human Health Evaluation Manual Part E - Supplemental Guidance for Dermal Risk Assessment, Final. OSWER Directive 9285.7-02EP, July.

Table 19b (Continued)
Values Used For Daily Intake Calculations
Post-Remediation Child Resident
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Surface/Subsurface Soil*
Exposure Point: Surface Soil*
Receptor Population: Resident
Receptor Age: Child

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	CT Value	CT Rationale/ Reference	Intake Equation
Inhalation of Fugitive Dust	CS	COPC Concentration in Soil	mg/kg	See Tables 9 and 10	See Tables 9 and 10	See Tables 9 and 10	See Tables 9 and 10	DI (mg/kg-day) =
	IR	Inhalation Rate	m^3/day	10	USEPA 1997a	10	USEPA 1997a	CS x IR x EF x ED/BW x AT x PEF
	PEF	Particulate Emission Factor	m^3/kg	1.32E+09	IAC 2002	1.32E+09	IAC 2002	
	EF	Exposure Frequency	days/year	350	USEPA 1991	350	USEPA 1991	DI for use with RfC/UR (mg/m^3) =
	ED	Exposure Duration	years	6	USEPA 1991	2	USEPA 1993	CS x EF x ED/AT x PEF
	BW	Body Weight	kg	15	USEPA 1991	15	USEPA 1991	
	ATc	Averaging Time (Cancer)	days	25,550	USEPA 1991	25,550	USEPA 1991	
	ATn	Averaging Time (Non-Cancer)	days	10,950	USEPA 1991	3,285	USEPA 1991	
Inhalation of Chemicals in Vapor Phase	CS	COPC Concentration in Soil	mg/kg	See Tables 9 and 10	See Tables 9 and 10	See Tables 9 and 10	See Tables 9 and 10	DI (mg/kg-day) =
	VF	Volatilazion Factor	m^3/kg	See Table 14	See Tables 13 and 14	See Table 14	See Tables 13 and 14	CS x IR x EF x ED/(BW x AT x VF)
	IR	Inhalation Rate	m^3/day	10	USEPA 1997a	10	USEPA 1997a	
	EF	Exposure Frequency	days/year	350	USEPA 1991	350	USEPA 1991	DI for use with RfC/UR (mg/m^3) =
	ED	Exposure Duration	years	6	USEPA 1991	2	USEPA 1993	CS x EF x ED/(AT x VF)
	BW	Body Weight	kg	15	USEPA 1991	15	USEPA 1991	
	ATc	Averaging Time (Cancer)	days	25,550	USEPA 1991	25,550	USEPA 1991	
	ATn	Averaging Time (Non-Cancer)	days	10,950	USEPA 1991	3,285	USEPA 1991	

Note:

(1) * For future resident scenario, subsurface soil is assumed potentially to be redistributed to the surface.

SOURCES:

Illinois Administrative Code (IAC), 2002: Title 35: Environmental Protection, Subtitle G, Chapter I, Pollution Control Board, Subchapter f, Part 742: Tiered Approach to Corrective Action Objectives (TACO), Appendix C, Table B, February.

USEPA 1991: Risk Assessment Guidance for Superfund. Vol.1: Human Health Evaluation Manual - Supplemental Guidance, Standard Default Exposure Factors. Interim Final. OSWER Directive 9285.6-03, March 15.

USEPA 1993: Superfund's Standard Default Exosure Factors for the Central Tendency and Reasonable Maximum Exposure, November 4.

USEPA 1997a: Exposure Factors Handbook: Volume 1 - General Factors, August.

Table 20
Incidental Ingestion of Soil
Reasonable Maximum Exposure (RME)
Post-Remediation Resident 1
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

		Chronic Noncarcinogenic Effects				Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	RME Conc (CS) mg/kg	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Oral RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Oral Slope Factor $(mg/kg\text{-}day)^{-1}$	Risk unitless
Acetone	0 164	3.65E-06	5.99E-07	9.0E-01	7E-07	1 57E-06	2.57E-07		
Benzene	0 008	3.65E-06	2.92E-08	4.0E-03	7E-06	1 57E-06	1 25E-08	5 5E-02	7E-10
2-Butanone	0 044	3.65E-06	1.61E-07	6.0E-01	3E-07	1 57E-06	6 89E-08		
Ethylbenzene	0 027	3.65E-06	9.86E-08	1.0E-01	1E-06	1 57E-06	4 23E-08		
o-Xylene	0 016	3.65E-06	5.84E-08	2.0E-01	3E-07	1 57E-06	2 50E-08		
Bis(2-ethylhexyl)phthalate	0 266	3.65E-06	9.72E-07	2.0E-02	5E-05	1 57E-06	4 16E-07	1 4E-02	6E-09
Carbazole	0 271	3.65E-06	9.90E-07			1 57E-06	4 24E-07	2 0E-02	8E-09
Acenaphthene	0 118	3.65E-06	4.31E-07	6.0E-02	7E-06	1.57E-06	1 85E-07		
Acenaphthylene	0 084	3.65E-06	3.07E-07			1.57E-06	1 32E-07		
Anthracene	0.198	3.65E-06	7.23E-07	3.0E-01	2E-06	1.57E-06	3 10E-07		
Benzo(a)anthracene	0 288	3.65E-06	1.05E-06			1 57E-06	4 51E-07	7 3E-01	3E-07
Benzo(b)fluoranthene	0 258	3.65E-06	9.42E-07			1.57E-06	4.04E-07	7.3E-01	3E-07
Benzo(k)fluoranthene	0.254	3.65E-06	9.28E-07			1 57E-06	3 98E-07	7 3E-02	3E-08
Benzo(g,h,i)perylene	0.331	3.65E-06	1.21E-06			1 57E-06	5.18E-07		
Benzo(a)pyrene	0.299	3.65E-06	1.09E-06			1 57E-06	4 68E-07	7.3E+00	3E-06
Chrysene	0.513	3.65E-06	1.87E-06			1.57E-06	8.03E-07	7.3E-03	6E-09
Dibenzo(a,h)anthracene	0.103	3.65E-06	3.76E-07			1.57E-06	1.61E-07	7.3E+00	1E-06
Fluoranthene	0 734	3.65E-06	2.68E-06	4.0E-02	7E-05	1.57E-06	1.15E-06		
Fluorene	0.194	3.65E-06	7.09E-07	4 0E-02	2E-05	1.57E-06	3.04E-07		
Indeno(1,2,3-cd)pyrene	0.242	3.65E-06	8.84E-07			1.57E-06	3.79E-07	7 3E-01	3E-07
Naphthalene	0.175	3.65E-06	6.39E-07	2 0E-02	3E-05	1 57E-06	2.74E-07		
Phenanthrene	0.554	3.65E-06	2.02E-06			1.57E-06	8.67E-07		
Pyrene	0.998	3.65E-06	3.65E-06	3 0E-02	1E-04	1 57E-06	1.56E-06		
Beryllium	1.178	3.65E-06	4.30E-06	2 0E-03	2E-03	1 57E-06	1 84E-06		
Chromium*	19 389	3.65E-06	7.08E-05	3 0E-03	2E-02	1 57E-06	3 04E-05		
Copper	32.712	3.65E-06	1.19E-04	4 0E-02	3E-03	1 57E-06	5 12E-05		
Mercury	0.166	3.65E-06	6.06E-07			1 57E-06	2 60E-07		
Nickel	34.373	3.65E-06	1.26E-04	2 0E-02	6E-03	1 57E-06	5 38E-05		
Thallium	2.537	3.65E-06	9.27E-06			1.57E-06	3.97E-06		
		Total Pathway Hazard Index--------->			4E-02	Total Pathway Risk----->			6E-06

INCIDENTAL INGESTION OF SOIL
CS = Concentration of chemical in soil (mg/kg) See Table 9
1 00E-06 CF = 0 000001 kg/mg - Conversion Factor
1 00E+02 IRa = 100 mg/day - Ingestion Rate of soil by an adult, (USEPA 1991)
2 00E+02 IRc = 200 mg/day - Ingestion Rate of soil by a child, (USEPA 1991)
2 40E+01 EDa = 24 yr - Exposure Duration for an adult, (USEPA 1991)
6 00E+00 EDc = 6 yr - Exposure Duration for an adult, (USEPA 1991)
3 50E+02 EFa = 350 days/yr - Exposure Frequency for an adult, (USEPA 1991)
3 50E+02 EFc = 350 days/yr - Exposure Frequency for a child, (USEPA 1991)
7 00E+01 BWa = 70 kg - Body Weight for an adult, (USEPA 1991)
1 50E+01 BWc = 15 kg - Body Weight for a child, (USEPA 1991)
1 095E+04 ATn = 10,950 days - Averaging Time for noncarcinogenic compounds, (USEPA 1991)
2 555E+04 ATc = 25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)
1 00E+00 FIa = 1 - Fraction Ingested, (USEPA 1989)
1 00E+00 FIc = 1 - Fraction Ingested, (USEPA 1989)
HIF--NONCARCINOGENIC---------> 3 65E-06 HIF = ((IRa * EFa * EDa * FIa / BWa) + (IRc * EFc * EDc * FIc / BWc)) * CF / (ATn)
HIF--CARCINOGENIC----------> 1 57E-06 HIF = ((IRa * EFa * EDa * FIa / BWa) + (IRc * EFc * EDc * FIc / BWc)) * CF / (ATc)
DAILY INTAKE = (CS * HIF)
HQ (noncarcinogenic) = (INTAKE / RfD)
RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* Chromium concentration is total chromium. RfD is for chromium VI particulates

Table 21
Dermal Contact with Soil
Reasonable Maximum Exposure (RME)
Post-Remediation Resident 1
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

			Chronic Noncarcinogenic Effects				Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	RME Conc (CS) mg/kg	Absorption Factor (ABS) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Adjusted Dermal RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Adjusted Dermal Slope Factor $(mg/kg\text{-}day)^{-1}$	Risk unitless
Acetone*	0 164									
Benzene*	0 008									
2-Butanone*	0 044									
Ethylbenzene*	0 027									
o-Xylene*	0 016									
Bis(2-ethylhexyl)phthalate	0 266	1 00E-01	1 15E-05	3 07E-07	2 0E-02	2E-05	4 94E-06	1 31E-07	1 4E-02	2E-09
Carbazole	0 271	1 00E-01	1 15E-05	3 13E-07			4 94E-06	1 34E-07	2 0E-02	3E-09
Acenaphthene	0 118	1 30E-01	1 15E-05	1 77E-07	6 0E-02	3E-06	4 94E-06	7 58E-08		
Acenaphthylene	0 084	1 30E-01	1 15E-05	1 26E-07			4 94E-06	5 40E-08		
Anthracene	0 198	1 30E-01	1 15E-05	2 97E-07	3 0E-01	1E-06	4 94E-06	1 27E-07		
Benzo(a)anthracene	0 288	1 30E-01	1 15E-05	4 32E-07			4 94E-06	1 85E-07	7 3E-01	1E-07
Benzo(b)fluoranthene	0 258	1 30E-01	1 15E-05	3 87E-07			4 94E-06	1 66E-07	7 3E-01	1E-07
Benzo(k)fluoranthene	0 254	1 30E-01	1 15E-05	3 81E-07			4 94E-06	1 63E-07	7 3E-02	1E-08
Benzo(g,h,i)perylene	0 331	1 30E-01	1 15E-05	4 96E-07			4 94E-06	2 13E-07		
Benzo(a)pyrene	0 299	1 30E-01	1 15E-05	4 48E-07			4 94E-06	1 92E-07	7 3E+00	1E-06
Chrysene	0 513	1 30E-01	1 15E-05	7 69E-07			4 94E-06	3 30E-07	7 3E-03	2E-09
Dibenzo(a,h)anthracene	0 103	1 30E-01	1 15E-05	1 54E-07			4 94E-06	6 62E-08	7 3E+00	5E-07
Fluoranthene	0 734	1 30E-01	1 15E-05	1 10E-06	4 0E-02	3E-05	4 94E-06	4 72E-07		
Fluorene	0 194	1 30E-01	1 15E-05	2 91E-07	4 0E-02	7E-06	4 94E-06	1 25E-07		
Indeno(1,2,3-cd)pyrene	0 242	1 30E-01	1 15E-05	3 63E-07			4 94E-06	1 55E-07	7 3E-01	1E-07
Naphthalene	0 175	1 30E-01	1 15E-05	2 62E-07	2 0E-02	1E-05	4 94E-06	1 12E-07		
Phenanthrene	0 554	1 30E-01	1 15E-05	8 31E-07			4 94E-06	3 56E-07		
Pyrene	0 998	1 30E-01	1 15E-05	1 50E-06	3 0E-02	5E-05	4 94E-06	6 41E-07		
Beryllium*	1 178									
Chromium*	19 389									
Copper*	32 712									
Mercury*	0 166									
Nickel*	34 373									
Thallium*	2 537									
			Total Pathway Hazard Index--------->			1E-04	Total Pathway Risk----->			2E-06

DERMAL CONTACT WITH SOIL

CS = Concentration of chemical in soil (mg/kg). See Table 9

ABS = Default value from Rags Part E (USEPA 2004c)

1 00E-06 CF = 0 000001 kg/mg - Conversion Factor

5 70E+03 SAa = 5,700 sq cm - Skin Surface Area available for an adult, (USEPA 2004c)

2 80E+03 SAc = 2,800 sq cm - Skin Surface Area available for an child, (USEPA 2004c)

2 40E+01 EDa = 24 yr - Exposure Duration for an adult, (USEPA 1991)

6 00E+00 EDc = 6 yr - Exposure Duration for a child, (USEPA 1991)

3 50E+02 EFa = 350 days/yr - Exposure Frequency for an adult, (USEPA 1991)

3 50E+02 EFc = 350 days/yr - Exposure Frequency for a child, (USEPA 1991)

7 00E+01 BWa = 70 kg - Body Weight for an adult, (USEPA 1991)

1 50E+01 BWc = 15 kg - Body Weight for a child, (USEPA 1991)

1 095E+04 ATn = 10,950 days - Averaging Time for noncarcinogenic compounds, (USEPA 1991)

2 555E+04 ATc = 25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

7 00E-02 AFa = 0 07 mg/cm2 - Soil to Skin Adherence Factor, (USEPA 2004c)

2 00E-01 AFc = 0 2 mg/cm2 - Soil to Skin Adherence Factor, (USEPA 2004c)

HIF--NONCARCINOGENIC----------> 1 15E-05 HIF = ((SAa * EFa * EDa * AFa / BWa) + (SAc * EFc * EDc* AFc / BWc)) * CF / (ATn)

HIF--CARCINOGENIC----------> 4 94E-06 HIF = ((SAa * EFa * Eda * AFa / BWa) + (SAc * EFc * Edc * AFc / BWc)) * CF / (ATc)

DAILY INTAKE = (CS * ABS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

NOTE:

* BTEX compounds and inorganics excluded from dermal risk assessment (USEPA 2004c)

Table 22
Inhalation of Chemicals in Fugitive Dust
Reasonable Maximum Exposure (RME)
Post-Remediation Resident 1
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

		Chronic Noncarcinogenic Effects					Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	RME Conc (CS) mg/kg	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Inhalation RfC mg/m^3	Inhalation RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Inhalation SF $(mg/kg\text{-}day)^{-1}$ or UR $(ug/m^3)^{-1}$	Inhalation Risk unitless
Acetone	0 164	2.23E-10	3.66E-11				9 56E-11	1 57E-11		
Benzene	0 008	2.23E-10	1.78E-12	3 0E-02	8 6E-03	2E-10	9.56E-11	7 65E-13	2.7E-02	2E-14
2-Butanone	0 044	2.23E-10	9.81E-12	5 0E+00	1 4E+00	7E-12	9.56E-11	4 21E-12		
Ethylbenzene	0 027	2.23E-10	6.02E-12	1 0E+00	2 9E-01	2E-11	9.56E-11	2 58E-12		
o-Xylene	0 016	2.23E-10	3.57E-12	1 0E-01	2 9E-02	1E-10	9.56E-11	1.53E-12		
Bis(2-ethylhexyl)phthalate	0 266	2.23E-10	5 93E-11				9 56E-11	2.54E-11		
Carbazole	0 271	2.23E-10	6 04E-11				9 56E-11	2.59E-11		
Acenaphthene	0 118	2 23E-10	2 63E-11				9 56E-11	1.13E-11		
Acenaphthylene	0 084	2 23E-10	1 87E-11				9 56E-11	8 03E-12		
Anthracene	0.198	2 23E-10	4 42E-11				9 56E-11	1 89E-11		
Benzo(a)anthracene (1, 2)	0.288	7 26E-10	2 09E-10				3.11E-10	8 97E-11	8 8E-05	8E-12
Benzo(b)fluoranthene (1,2)	0 258	7 26E-10	1 87E-10				3.11E-10	8 03E-11	8 8E-05	7E-12
Benzo(k)fluoranthene (1,2)	0 254	7 26E-10	1 85E-10				3.11E-10	7.91E-11	8 8E-06	7E-13
Benzo(g,h,i)perylene	0.331	2 23E-10	7.38E-11				9.56E-11	3.16E-11		
Benzo(a)pyrene (1, 2)	0.299	7 26E-10	2.17E-10				3 11E-10	9.31E-11	8 8E-04	8E-11
Chrysene (1, 2)	0.513	7.26E-10	3.73E-10				3 11E-10	1.60E-10	8 8E-07	1E-13
Dibenzo(a,h)anthracene (1, 2)	0.103	7.26E-10	7.48E-11				3 11E-10	3.21E-11	8 8E-04	3E-11
Fluoranthene	0.734	2.23E-10	1.64E-10				9 56E-11	7.02E-11		
Fluorene	0.194	2.23E-10	4.33E-11				9 56E-11	1 85E-11		
Indeno(1,2,3-cd)pyrene (1, 2)	0.242	7.26E-10	1.76E-10				3.11E-10	7 53E-11	8 8E-05	7E-12
Naphthalene(1)	0.175	7.26E-10	1.27E-10	3 0E-03		4E-08	3.11E-10	5 45E-11		
Phenanthrene	0.554	2.23E-10	1 24E-10				9 56E-11	5.30E-11		
Pyrene	0.998	2.23E-10	2.23E-10				9.56E-11	9.54E-11		
Beryllium (1, 2)	1 178	7 26E-10	8 56E-10	2.0E-05		4E-05	3 11E-10	3.67E-10	2.4E-03	9E-10
Chromium (1, 2, 3)	19 389	7 26E-10	1 41E-08	1 0E-04		1E-04	3 11E-10	6.04E-09	1 2E-02	7E-08
Copper	32.712	2 23E-10	7 30E-09				9 56E-11	3 13E-09		
Mercury	0 166	2 23E-10	3.70E-11	3 0E-04	8 6E-05	4E-07	9 56E-11	1 59E-11		
Nickel	34 373	2 23E-10	7 67E-09				9 56E-11	3 29E-09		
Thallium	2.537	2.23E-10	5.66E-10				9.56E-11	2.43E-10		
			Total Pathway Hazard Index-------->			2E-04		Total Pathway Risk---->		7E-08

INHALATION DUE TO FUGITIVE DUST

CS = Concentration of chemical in soil (mg/kg) See Table 9

1 32E+09 PEF = 1,320,000,000 m^3/kg - Particulate Emission Factor, (IAC 2002)

1 52E+01 IRa = 20 m^3/day - Inhalation Rate of an adult, (USEPA 1991)

1 00E+01 IRc = 10 m^3/day - Inhalation Rate of a child, (USEPA 1997a)

3 50E+02 EFa = 350 days/yr - Exposure Frequency for an adult, (USEPA 1991)

3 50E+02 EFc = 350 days/yr - Exposure Frequency for a child, (USEPA 1991)

2 40E+01 EDa = 24 yr - Exposure Duration for an adult, (USEPA 1991)

6.00E+00 EDc = 6 yr - Exposure Duration for a child, (USEPA 1991)

7 00E+01 BWa = 70 kg - Body Weight for an adult, (USEPA 1991)

1 50E+01 BWc = 15 kg - Body Weight for a child, (USEPA 1991)

1 095E+04 ATn = 10,950 days - Averaging Time for noncarcinogenic compounds, (USEPA 1991)

2 555E+04 ATc =25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

HIF--NONCARCINOGENIC----------> 2 23E-10 HIF = (((IRa * EFa * EDa) / BWa) + ((IRc * EFc * EDc) / BWc)) / (PEF * ATn)

HIF--CARCINOGENIC----------> 9 56E-11 HIF = (((IRa * EFa * EDa) / BWa) + ((IRc * EFc * EDc) / BWc)) / (PEF * ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

FOR CARCINOGENIC PAHS NAPHTHALENE, BERYLLIUM AND CHROMIUM:

HIF--NONCARCINOGENIC----------> 7 26E-10 HIF = ((EFa * EDa) + (EFc * EDc)) / (PEF * ATn)

HIF--CARCINOGENIC----------> 3 11E-10 HIF = ((EFa * EDa) + (EFc * EDc)) / (PEF * ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfC)

RISK (carcinogenic) = (INTAKE * UR * 1000 ug/mg)

NOTES:

(1) Units for HIF are kg/m^3 and units for Daily Intake are mg/m^3.

(2) Unit Risk (UR) $(ug/m^3)^{-1}$ is used to calculate carcinogenic risk

(3) Chromium concentration is total chromium, RfC and UR are for chromium VI particulates.

Table 23
Inhalation of Chemicals in Vapor Phase
Reasonable Maximum Exposure (RME)
Post-Remediation Resident 1
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

			Noncarcinogenic Effects					Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	RME Conc (CS) mg/kg	Volatization Factor (VF) m^3/kg	Human Intake Factor (HIF) m^3/kg-day OR unitless *	Daily Intake mg/kg-day OR mg/m^3 *	Inhalation RfC mg/m^3	Inhalation RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) m^3/kg-day OR unitless *	Daily Intake mg/kg-day OR mg/m^3 *	Inhalation Slope Factor (SF) $(mg/kg\text{-}day)^{-1}$	Inhalation Risk unitless
Acetone	0.164	4.71E+04	2.94E-01	1.03E-06				1.26E-01	4.39E-07		
Benzene	0.008	8.38E+03	2.94E-01	2.81E-07	3.0E-02	8.6E-03	3E-05	1.26E-01	1.20E-07	2.7E-02	3E-09
2-Butanone	0.044	5.84E+04	2.94E-01	2.22E-07	5.0E+00	1.4E+00	2E-07	1.26E-01	9.51E-08		
Ethylbenzene	0.027	1.28E+04	2.94E-01	6.19E-07	1.0E+00	2.9E-01	2E-06	1.26E-01	2.65E-07		
o-Xylene	0.016	1.46E+04	2.94E-01	3.23E-07	1.0E-01	2.9E-02	1E-05	1.26E-01	1.38E-07		
Naphthalene*	0.175	1.17E+05	9.59E-01	1.43E-06	3.0E-03		5E-04	4.11E-01	6.14E-07		
				Total Pathway Hazard Index-------->			5E-04		Total Pathway Risk---->		3E-09

INHALATION OF CHEMICALS IN VAPOR PHASE

CS = Concentration of chemical in soil (mg/kg). See Table 9

VF = Volatization factor. See Table 14

1.52E+01 IRa = 20 m^3/day - Inhalation Rate of an adult, (USEPA 1991)

1.00E+01 IRc = 10 m^3/day - Inhalation Rate of a child, (USEPA 1997a)

3.50E+02 EFa = 350 days/yr - Exposure Frequency for an adult, (USEPA 1991)

3.50E+02 EFc = 350 days/yr - Exposure Frequency for a child, (USEPA 1991)

2.40E+01 EDa = 24 yr - Exposure Duration for an adult, (USEPA 1991)

6.00E+00 EDc = 6 yr - Exposure Duration for a child, (USEPA 1991)

7.00E+01 BWa = 70 kg - Body Weight for an adult, (USEPA 1991)

1.50E+01 BWc = 15 kg - Body Weight for a child, (USEPA 1991)

1.095E+04 ATn = 10,950 days - Averaging Time for noncarcinogenic compounds, (USEPA 1991)

2.555E+04 ATc =25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

HIF--NONCARCINOGENIC----------> 2.94E-01 HIF = (((IRa * EFa * EDa) / BWa) + ((IRc * EFc * EDc) / BWc)) / (ATn)

HIF--CARCINOGENIC----------> 1.26E-01 HIF = (((IRa * EFa * EDa) / BWa) + ((IRc * EFc * EDc) / BWc)) / (ATc)

DAILY INTAKE = (CS * HIF) / (VF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* FOR NAPHTHALENE:

HIF--NONCARCINOGENIC----------> 9.59E-01 HIF = ((EFa * EDa) + (EFc * EDc)) / (ATn)

HIF--CARCINOGENIC----------> 4.11E-01 HIF = ((EFa * EDa) + (EFc * EDc)) / (ATc)

DAILY INTAKE = (CS * HIF) / (VF)

HQ (noncarcinogenic) = (INTAKE / RfC)

RISK (carcinogenic) = (INTAKE * UR * 1000 ug/mg)

Table 24
Incidental Ingestion of Soil
Central Tendency (CT)
Post-Remediation Resident 1
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

		Chronic Noncarcinogenic Effects				Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	CT Conc (CS) mg/kg	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Oral RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Oral Slope Factor $(mg/kg\text{-}day)^{-1}$	Risk unitless
Acetone	0 164	1.95E-06	3.20E-07	9 0E-01	4E-07	2 51E-07	4 12E-08		
Benzene	0 008	1 95E-06	1 56E-08	4 0E-03	4E-06	2.51E-07	2 01E-09	5 5E-02	1 E-10
2-Butanone	0 044	1.95E-06	8 59E-08	6 0E-01	1E-07	2.51E-07	1.11E-08		
Ethylbenzene	0.027	1.95E-06	5 27E-08	1 0E-01	5E-07	2 51E-07	6.78E-09		
o-Xylene	0 016	1 95E-06	3 13E-08	2 0E-01	2E-07	2.51E-07	4 02E-09		
Bis(2-ethylhexyl)phthalate	0 266	1.95E-06	5 20E-07	2 0E-02	3E-05	2.51E-07	6.68E-08	1.4E-02	9 E-10
Carbazole	0.271	1 95E-06	5 29E-07			2.51E-07	6.81E-08	2.0E-02	1 E-09
Acenaphthene	0.118	1.95E-06	2 30E-07	6 0E-02	4E-06	2.51E-07	2.96E-08		
Acenaphthylene	0.084	1.95E-06	1 64E-07			2 51E-07	2 11E-08		
Anthracene	0.198	1 95E-06	3 87E-07	3 0E-01	1E-06	2 51E-07	4 97E-08		
Benzo(a)anthracene	0.288	1 95E-06	5.63E-07			2 51E-07	7 23E-08	7 3E-01	5 E-08
Benzo(b)fluoranthene	0.258	1.95E-06	5.04E-07			2 51E-07	6 48E-08	7 3E-01	5 E-08
Benzo(k)fluoranthene	0.254	1 95E-06	4.96E-07			2.51E-07	6 38E-08	7 3E-02	5 E-09
Benzo(g,h,i)perylene	0.331	1 95E-06	6.47E-07			2 51E-07	8.31E-08		
Benzo(a)pyrene	0.299	1 95E-06	5.84E-07			2.51E-07	7.51E-08	7 3E+00	5 E-07
Chrysene	0.513	1 95E-06	1.00E-06			2.51E-07	1.29E-07	7.3E-03	9 E-10
Dibenzo(a,h)anthracene	0.103	1 95E-06	2.01E-07			2.51E-07	2.59E-08	7.3E+00	2 E-07
Fluoranthene	0 734	1 95E-06	1.43E-06	4 0E-02	4E-05	2.51E-07	1.84E-07		
Fluorene	0.194	1 95E-06	3.79E-07	4 0E-02	9E-06	2.51E-07	4.87E-08		
Indeno(1,2,3-cd)pyrene	0 242	1.95E-06	4 73E-07			2 51E-07	6 08E-08	7 3E-01	4 E-08
Naphthalene	0 175	1 95E-06	3 42E-07	2 0E-02	2E-05	2 51E-07	4 39E-08		
Phenanthrene	0 554	1.95E-06	1 08E-06			2 51E-07	1 39E-07		
Pyrene	0 998	1.95E-06	1 95E-06	3 0E-02	6E-05	2 51E-07	2 51E-07		
Beryllium	1 178	1.95E-06	2 30E-06	2 0E-03	1E-03	2 51E-07	2 96E-07		
Chromium*	19 389	1.95E-06	3 79E-05	3 0E-03	1E-02	2 51E-07	4 87E-06		
Copper	32 712	1.95E-06	6 39E-05	4 0E-02	2E-03	2 51E-07	8 22E-06		
Mercury	0 166	1.95E-06	3 24E-07			2.51E-07	4 17E-08		
Nickel	34 373	1.95E-06	6 71E-05	2 0E-02	3E-03	2 51E-07	8 63E-06		
Thallium	2.537	1.95E-06	4.96E-06			2.51E-07	6.37E-07		
		Total Pathway Hazard Index--------->			2E-02	Total Pathway Risk----->			9.E-07

INCIDENTAL INGESTION OF SOIL

CS = Concentration of chemical in soil (mg/kg) See Table 9

1 00E-06 CF = 0 000001 kg/mg - Conversion Factor

5.00E+01 IRa = 50 mg/day - Ingestion Rate of soil by an adult, (USEPA 1991)

1 00E+02 IRc = 100 mg/day - Ingestion Rate of soil by a child, (USEPA 1991)

7.00E+00 EDa = 7 yr - Exposure Duration for an adult, (USEPA 1991)

2.00E+00 EDc = 2 yr - Exposure Duration for an adult, (USEPA 1991)

3 50E+02 EFa = 350 days/yr - Exposure Frequency for an adult, (USEPA 1991)

3 50E+02 EFc = 350 days/yr - Exposure Frequency for a child, (USEPA 1991)

7 00E+01 BWa = 70 kg - Body Weight for an adult, (USEPA 1991)

1 50E+01 BWc = 15 kg - Body Weight for a child, (USEPA 1991)

3 285E+03 ATn = 3,285 days - Averaging Time for noncarcinogenic compounds, (USEPA 1991)

2 555E+04 ATc = 25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

1 00E+00 FIa = 1 - Fraction Ingested, (USEPA 1989)

1.00E+00 FIc = 1 - Fraction Ingested, (USEPA 1989)

HIF--NONCARCINOGENIC----------> 1 95E-06 HIF = ((IRa * EFa * EDa * FIa / BWa) + (IRc * EFc * EDc * FIc / BWc)) * CF / (ATn)

HIF--CARCINOGENIC----------> 2 51E-07 HIF = ((IRa * EFa * EDa * FIa / BWa) + (IRc * EFc * EDc * FIc / BWc)) * CF / (ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* Chromium concentration is total chromium, RfD is for chromium VI particulates

Table 25
Dermal Contact with Soil
Central Tendency (CT)
Post-Remediation Resident 1
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Chemicals of Potential Concern	CT Conc (CS) mg/kg	Absorption Factor (ABS) unitless	Chronic Noncarcinogenic Effects: Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Adjusted Dermal RfD mg/kg-day	Hazard Quotient (HQ) unitless	Lifetime Carcinogenic Effects: Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Adjusted Dermal Slope Factor $(mg/kg\text{-}day)^{-1}$	Risk unitless
Acetone*	0.164									
Benzene*	0.008									
2-Butanone*	0.044									
Ethylbenzene*	0.027									
o-Xylene*	0.016									
Bis(2-ethylhexyl)phthalate	0.266	1.00E-01	2.20E-06	5.85E-08	2.0E-02	3E-06	2.83E-07	7.52E-09	1.4E-02	1E-10
Carbazole	0.271	1.00E-01	2.20E-06	5.96E-08			2.83E-07	7.66E-09	2.0E-02	2E-10
Acenaphthene	0.118	1.30E-01	2.20E-06	3.37E-08	6.0E-02	6E-07	2.83E-07	4.34E-09		
Acenaphthylene	0.084	1.30E-01	2.20E-06	2.40E-08			2.83E-07	3.09E-09		
Anthracene	0.198	1.30E-01	2.20E-06	5.66E-08	3.0E-01	2E-07	2.83E-07	7.28E-09		
Benzo(a)anthracene	0.288	1.30E-01	2.20E-06	8.23E-08			2.83E-07	1.06E-08	7.3E-01	8E-09
Benzo(b)fluoranthene	0.258	1.30E-01	2.20E-06	7.37E-08			2.83E-07	9.48E-09	7.3E-01	7E-09
Benzo(k)fluoranthene	0.254	1.30E-01	2.20E-06	7.26E-08			2.83E-07	9.33E-09	7.3E-02	7E-10
Benzo(g,h,i)perylene	0.331	1.30E-01	2.20E-06	9.46E-08			2.83E-07	1.22E-08		
Benzo(a)pyrene	0.299	1.30E-01	2.20E-06	8.55E-08			2.83E-07	1.10E-08	7.3E+00	8E-08
Chrysene	0.513	1.30E-01	2.20E-06	1.47E-07			2.83E-07	1.88E-08	7.3E-03	1E-10
Dibenzo(a,h)anthracene	0.103	1.30E-01	2.20E-06	2.94E-08			2.83E-07	3.78E-09	7.3E+00	3E-08
Fluoranthene	0.734	1.30E-01	2.20E-06	2.10E-07	4.0E-02	5E-06	2.83E-07	2.70E-08		
Fluorene	0.194	1.30E-01	2.20E-06	5.54E-08	4.0E-02	1E-06	2.83E-07	7.13E-09		
Indeno(1,2,3-cd)pyrene	0.242	1.30E-01	2.20E-06	6.92E-08			2.83E-07	8.89E-09	7.3E-01	6E-09
Naphthalene	0.175	1.30E-01	2.20E-06	5.00E-08	2.0E-02	3E-06	2.83E-07	6.43E-09		
Phenanthrene	0.554	1.30E-01	2.20E-06	1.58E-07			2.83E-07	2.04E-08		
Pyrene	0.998	1.30E-01	2.20E-06	2.85E-07	3.0E-02	1E-05	2.83E-07	3.67E-08		
Beryllium*	1.178									
Chromium*	19.389									
Copper*	32.712									
Mercury*	0.166									
Nickel*	34.373									
Thallium*	2.537									
			Total Pathway Hazard Index---------->			2E-05	Total Pathway Risk----->			1E-07

DERMAL CONTACT WITH SOIL

CS = Concentration of chemical in soil (mg/kg). See Table 9

ABS = Default value from Rags Part E (USEPA 2004c)

1.00E-06 CF = 0.000001 kg/mg - Conversion Factor

5.70E+03 SAa = 5,700 sq cm - Skin Surface Area available for an adult, (USEPA 2004c)

2.80E+03 SAc = 2,800 sq cm - Skin Surface Area available for an child, (USEPA 2004c)

7.00E+00 EDa = 7 yr - Exposure Duration for an adult, (USEPA 1991)

2.00E+00 EDc = 2 yr - Exposure Duration for a child, (USEPA 1991)

3.50E+02 EFa = 350 days/yr - Exposure Frequency for an adult, (USEPA 1991)

3.50E+02 EFc = 350 days/yr - Exposure Frequency for a child, (USEPA 1991)

7.00E+01 BWa = 70 kg - Body Weight for an adult, (USEPA 1991)

1.50E+01 BWc = 15 kg - Body Weight for a child, (USEPA 1991)

3.285E+03 ATn = 3.285 days - Averaging Time for noncarcinogenic compounds, (USEPA 1991)

2.555E+04 ATc = 25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

1.00E-02 AFa = 0.01 mg/cm2 - Soil to Skin Adherence Factor, (USEPA 2004c)

4.00E-02 AFc = 0.04 mg/cm2 - Soil to Skin Adherence Factor, (USEPA 2004c)

HIF-NONCARCINOGENIC----------> 2.20E-06 HIF = ((SAa * EFa * EDa * AFa / BWa) + (SAc * EFc * EDc* AFc / BWc)) * CF / (ATn)

HIF-CARCINOGENIC----------> 2.83E-07 HIF = ((SAa * EFa * Eda * AFa / BWa) + (SAc * EFc * Edc * AFc / BWc)) * CF / (ATc)

DAILY INTAKE = (CS * ABS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

NOTE:

* BTEX compounds and inorganics excluded from dermal risk assessment (USEPA 2004c).

Table 26
Inhalation of Chemicals in Fugitive Dust
Central Tendency (CT)
Post-Remediation Resident 1
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

		Chronic Noncarcinogenic Effects					Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	CT Conc (CS) mg/kg	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Inhalation RfC mg/m^3	Inhalation RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Inhalation SF $(mg/kg\text{-}day)^{-1}$ or UR $(ug/m^3)^{-1}$	Inhalation Risk unitless
Acetone	0.164	2.69E-10	4.41E-11				3.46E-11	5.67E-12		
Benzene	0.008	2.69E-10	2.15E-12	3.0E-02	8.6E-03	3E-10	3.46E-11	2.77E-13	2.7E-02	8E-15
2-Butanone	0.044	2.69E-10	1.18E-11	5.0E+00	1.4E+00	8E-12	3.46E-11	1.52E-12		
Ethylbenzene	0.027	2.69E-10	7.26E-12	1.0E+00	2.9E-01	3E-11	3.46E-11	9.34E-13		
o-Xylene	0.016	2.69E-10	4.30E-12	1.0E-01	2.9E-02	2E-10	3.46E-11	5.53E-13		
Bis(2-ethylhexyl)phthalate	0.266	2.69E-10	7.16E-11				3.46E-11	9.20E-12		
Carbazole	0.271	2.69E-10	7.29E-11				3.46E-11	9.37E-12		
Acenaphthene	0.118	2.69E-10	3.17E-11				3.46E-11	4.08E-12		
Acenaphthylene	0.084	2.69E-10	2.26E-11				3.46E-11	2.91E-12		
Anthracene	0.198	2.69E-10	5.33E-11				3.46E-11	6.85E-12		
Benzo(a)anthracene (1, 2)	0.288	7.26E-10	2.09E-10				9.34E-11	2.69E-11	8.8E-05	2E-12
Benzo(b)fluoranthene (1,2)	0.258	7.26E-10	1.87E-10				9.34E-11	2.41E-11	8.8E-05	2E-12
Benzo(k)fluoranthene (1,2)	0.254	7.26E-10	1.85E-10				9.34E-11	2.37E-11	8.8E-06	2E-13
Benzo(g,h,i)perylene	0.331	2.69E-10	8.91E-11				3.46E-11	1.15E-11		
Benzo(a)pyrene (1, 2)	0.299	7.26E-10	2.17E-10				9.34E-11	2.79E-11	8.8E-04	2E-11
Chrysene (1, 2)	0.513	7.26E-10	3.73E-10				9.34E-11	4.79E-11	8.8E-07	4E-14
Dibenzo(a,h)anthracene (1, 2)	0.103	7.26E-10	7.48E-11				9.34E-11	9.62E-12	8.8E-04	8E-12
Fluoranthene	0.734	2.69E-10	1.97E-10				3.46E-11	2.54E-11		
Fluorene	0.194	2.69E-10	5.22E-11				3.46E-11	6.71E-12		
Indeno(1,2,3-cd)pyrene (1, 2)	0.242	7.26E-10	1.76E-10				9.34E-11	2.26E-11	8.8E-05	2E-12
Naphthalene(1)	0.175	7.26E-10	1.27E-10	3.0E-03		4E-08	9.34E-11	1.63E-11		
Phenanthrene	0.554	2.69E-10	1.49E-10				3.46E-11	1.92E-11		
Pyrene	0.998	2.69E-10	2.69E-10				3.46E-11	3.45E-11		
Beryllium (1, 2)	1.178	7.26E-10	8.56E-10	2.0E-05		4E-05	9.34E-11	1.10E-10	2.4E-03	3E-10
Chromium (1, 2, 3)	19.389	7.26E-10	1.41E-08	1.0E-04		1E-04	9.34E-11	1.81E-09	1.2E-02	2E-08
Copper	32.712	2.69E-10	8.80E-09				3.46E-11	1.13E-09		
Mercury	0.166	2.69E-10	4.47E-11	3.0E-04	8.6E-05	5E-07	3.46E-11	5.74E-12		
Nickel	34.373	2.69E-10	9.25E-09				3.46E-11	1.19E-09		
Thallium	2.537	2.69E-10	6.83E-10				3.46E-11	8.78E-11		
			Total Pathway Hazard Index-------->			2E-04		Total Pathway Risk---->		2E-08

INHALATION DUE TO FUGITIVE DUST

CS = Concentration of chemical in soil (mg/kg) See Table 9

1.32E+09 PEF = 1,320,000,000 m^3/kg - Particulate Emission Factor, (IAC 2002)

2.00E+01 IRa = 20 m^3/day - Inhalation Rate of an adult, (USEPA 1991)

1.00E+01 IRc = 10 m^3/day - Inhalation Rate of a child, (USEPA 1997a)

3.50E+02 EFa = 350 days/yr - Exposure Frequency for an adult, (USEPA 1991)

3.50E+02 EFc = 350 days/yr - Exposure Frequency for a child. (USEPA 1991)

7.00E+00 EDa = 7 yr - Exposure Duration for an adult, (USEPA 1991)

2.00E+00 EDc = 2 yr - Exposure Duration for a child, (USEPA 1991)

7.00E+01 BWa = 70 kg - Body Weight for an adult, (USEPA 1991)

1.50E+01 BWc = 15 kg - Body Weight for a child, (USEPA 1991)

3.285E+03 ATn = 3,285 days - Averaging Time for noncarcinogenic compounds, (USEPA 1991)

2.555E+04 ATc =25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

HIF--NONCARCINOGENIC----------> 2.69E-10 HIF = (((IRa * EFa * EDa) / BWa) + ((IRc * EFc * EDc) / BWc)) / (PEF * ATn)

HIF--CARCINOGENIC----------> 3.46E-11 HIF = (((IRa * EFa * EDa) / BWa) + ((IRc * EFc * EDc) / BWc)) / (PEF * ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

FOR CARCINOGENIC PAHS NAPHTHALENE, BERYLLIUM AND CHROMIUM:

HIF--NONCARCINOGENIC----------> 7.26E-10 HIF = ((EFa * EDa) + (EFc * EDc)) / (PEF * ATn)

HIF--CARCINOGENIC----------> 9.34E-11 HIF = ((EFa * EDa) + (EFc * EDc)) / (PEF * ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfC)

RISK (carcinogenic) = (INTAKE * UR * 1000 ug/mg)

NOTES:

(1) Units for HIF are kg/m^3 and units for Daily Intake are mg/m^3.

(2) Unit Risk (UR) $(ug/m^3)^{-1}$ is used to calculate carcinogenic risk

(3) Chromium concentration is total chromium, RfC and UR are for chromium VI particulates.

Table 27
Inhalation of Chemicals in Vapor Phase
Central Tendency (CT)
Post-Remediation Resident 1
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

			Noncarcinogenic Effects					Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	CT Conc (CS) mg/kg	Volatization Factor (VF) m^3/kg	Human Intake Factor (HIF) m^3/kg-day OR unitless *	Daily Intake mg/kg-day OR mg/m^3 *	Inhalation RfC mg/m^3	Inhalation RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) m^3/kg-day OR unitless *	Daily Intake mg/kg-day OR mg/m^3 *	Inhalation Slope Factor (SF) $(mg/kg\text{-}day)^{-1}$	Inhalation Risk unitless
Acetone	0 164	2 56E+04	3 55E-01	2 28E-06				4 57E-02	2 93E-07		
Benzene	0 008	4 55E+03	3 55E-01	6 24E-07	3.0E-02	8 6E-03	7E-05	4 57E-02	8 03E-08	2 7E-02	2E-09
2-Butanone	0 044	3 17E+04	3 55E-01	4 93E-07	5 0E+00	1 4E+00	3E-07	4 57E-02	6 34E-08		
Ethylbenzene	0 027	6 97E+03	3 55E-01	1 38E-06	1 0E+00	2 9E-01	5E-06	4 57E-02	1 77E-07		
o-Xylene	0 016	7 92E+03	3 55E-01	7 18E-07	1 0E-01	2 9E-02	3E-05	4 57E-02	9 23E-08		
Naphthalene*	0.175	6.36E+04	9.59E-01	2.64E-06	3.0E-03		9E-04	1.23E-01	3.39E-07		
				Total Pathway Hazard Index--------->			1E-03		Total Pathway Risk---->		2E-09

INHALATION OF CHEMICALS IN VAPOR PHASE

CS = Concentration of chemical in soil (mg/kg) See Table 9

VF = Volatization factor See Table 14

2 00E+01 IRa = 20 m^3/day - Inhalation Rate of an adult, (USEPA 1991)

1 00E+01 IRc = 10 m^3/day - Inhalation Rate of a child, (USEPA 1997a)

3 50E+02 EFa = 350 days/yr - Exposure Frequency for an adult, (USEPA 1991)

3 50E+02 EFc = 350 days/yr - Exposure Frequency for a child, (USEPA 1991)

7 00E+00 EDa = 7 yr - Exposure Duration for an adult, (USEPA 1991)

2 00E+00 EDc = 2 yr - Exposure Duration for a child, (USEPA 1991)

7 00E+01 BWa = 70 kg - Body Weight for an adult, (USEPA 1991)

1 50E+01 BWc = 15 kg - Body Weight for a child, (USEPA 1991)

3 285E+03 ATn = 3,285 days - Averaging Time for noncarcinogenic compounds, (USEPA 1991)

2 555E+04 ATc =25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

3 55E-01 HIF = (((IRa * EFa * EDa) / BWa) + ((IRc * EFc * EDc) / BWc)) / (ATn)

HIF--NONCARCINOGENIC----------> 4 57E-02 HIF = (((IRa * EFa * EDa) / BWa) + ((IRc * EFc * EDc) / BWc)) / (ATc)

HIF--CARCINOGENIC----------> DAILY INTAKE = (CS * HIF) / (VF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* FOR NAPHTHALENE:

9 59E-01 HIF = ((EFa * EDa) + (EFc * EDc)) / (ATn)

HIF--NONCARCINOGENIC----------> 1 23E-01 HIF = ((EFa * EDa) + (EFc * EDc)) / (ATc)

HIF--CARCINOGENIC----------> DAILY INTAKE = (CS * HIF) / (VF)

HQ (noncarcinogenic) = (INTAKE / RfC)

RISK (carcinogenic) = (INTAKE * UR * 1000 ug/mg)

Table 28
Incidental Ingestion of Soil
Reasonable Maximum Exposure (RME)
Post-Remediation Resident 2
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

		Chronic Noncarcinogenic Effects				Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	RME Conc (CS) mg/kg	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Oral RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Oral Slope Factor (mg/kg-day)$^{-1}$	Risk unitless
Acetone	0 113	3 65E-06	4 13E-07	9 0E-01	5E-07	1 57E-06	1 77E-07		
Benzene	0 009	3 65E-06	3 29E-08	4 0E-03	8E-06	1 57E-06	1 41E-08	5 5E-02	8E-10
2-Butanone	0 029	3 65E-06	1 06E-07	6 0E-01	2E-07	1 57E-06	4 54E-08		
o-Xylene	0 009	3 65E-06	3 29E-08	2 0E-01	2E-07	1 57E-06	1 41E-08		
Acenaphthene	0 074	3 65E-06	2 70E-07	6 0E-02	5E-06	1 57E-06	1 16E-07		
Acenaphthylene	0 052	3 65E-06	1 90E-07			1 57E-06	8 14E-08		
Anthracene	0 115	3 65E-06	4 20E-07	3 0E-01	1E-06	1 57E-06	1 80E-07		
Benzo(a)anthracene	0 299	3 65E-06	1 09E-06			1 57E-06	4 68E-07	7 3E-01	3E-07
Benzo(b)fluoranthene	0 268	3 65E-06	9 79E-07			1 57E-06	4 20E-07	7 3E-01	3E-07
Benzo(k)fluoranthene	0 263	3 65E-06	9 61E-07			1 57E-06	4 12E-07	7 3E-02	3E-08
Benzo(g,h,i)perylene	0 344	3 65E-06	1 26E-06			1 57E-06	5 39E-07		
Benzo(a)pyrene	0 312	3 65E-06	1 14E-06			1 57E-06	4 88E-07	7 3E+00	4E-06
Chrysene	0 532	3 65E-06	1 94E-06			1 57E-06	8 33E-07	7 3E-03	6E-09
Dibenzo(a,h)anthracene	0 063	3 65E-06	2 30E-07			1 57E-06	9 86E-08	7 3E+00	7E-07
Fluoranthene	0 763	3 65E-06	2 79E-06	4 0E-02	7E-05	1 57E-06	1 19E-06		
Fluorene	0 111	3 65E-06	4 05E-07	4 0E-02	1E-05	1 57E-06	1 74E-07		
Indeno(1,2,3-cd)pyrene	0 251	3 65E-06	9 17E-07			1 57E-06	3 93E-07	7 3E-01	3E-07
Naphthalene	0 613	3 65E-06	2 24E-06	2 0E-02	1E-04	1 57E-06	9 60E-07		
Phenanthrene	0 58	3 65E-06	2 12E-06			1 57E-06	9 08E-07		
Pyrene	1 08	3 65E-06	3 95E-06	3 0E-02	1E-04	1 57E-06	1 69E-06		
Beryllium	1 144	3 65E-06	4 18E-06	2 0E-03	2E-03	1 57E-06	1 79E-06		
Chromium*	19 192	3 65E-06	7 01E-05	3 0E-03	2E-02	1 57E-06	3 00E-05		
Copper	32 983	3 65E-06	1 20E-04	4 0E-02	3E-03	1 57E-06	5 16E-05		
Mercury	0 099	3 65E-06	3 62E-07			1 57E-06	1 55E-07		
Nickel	32 284	3 65E-06	1 18E-04	2 0E-02	6E-03	1 57E-06	5 05E-05		
Thallium	2.222	3.65E-06	8.12E-06			1.57E-06	3.48E-06		
		Total Pathway Hazard Index--------->			3E-02	Total Pathway Risk----->			5E-06

INCIDENTAL INGESTION OF SOIL

CS = Concentration of chemical in soil (mg/kg). See Table 10

1 00E-06 CF = 0 000001 kg/mg - Conversion Factor

1 00E+02 IRa = 100 mg/day - Ingestion Rate of soil by an adult (USEPA 1991)

2 00E+02 IRc = 200 mg/day - Ingestion Rate of soil by a child (USEPA 1991)

2 40E+01 EDa = 24 yr - Exposure Duration for an adult (USEPA 1991)

6 00E+00 EDc = 6 yr - Exposure Duration for an adult (USEPA 1991)

3 50E+02 EFa = 350 days/yr - Exposure Frequency for an adult (USEPA 1991)

3 50E+02 EFc = 350 days/yr - Exposure Frequency for a child (USEPA 1991)

7 00E+01 BWa = 70 kg - Body Weight for an adult (USEPA 1991)

1 50E+01 BWc = 15 kg - Body Weight for a child (USEPA 1991)

1 095E+04 ATn = 10 950 days - Averaging Time for noncarcinogenic compounds (USEPA 1991)

2 555E+04 ATc = 25 550 days - Averaging Time for carcinogenic compounds (USEPA 1991)

1 00E+00 FIa = 1 - Fraction Ingested (USEPA 1989)

1 00E+00 FIc = 1 - Fraction Ingested (USEPA 1989)

HIF--NONCARCINOGENIC----------> 3 65E-06 HIF = ((IRa * EFa * EDa * FIa / BWa) + (IRc * EFc * EDc * FIc / BWc)) * CF / (ATn)

HIF--CARCINOGENIC---------- 1 57E-06 HIF = ((IRa * EFa * EDa * FIa / BWa) + (IRc * EFc * EDc * FIc / BWc)) * CF / (ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* Chromium concentration is total chromium. RfD is for chromium VI particulates.

Table 29
Dermal Contact with Soil
Reasonable Maximum Exposure (RME)
Post-Remediation Resident 2
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

			Chronic Noncarcinogenic Effects				Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	RME Conc (CS) mg/kg	Absorption Factor (ABS) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Adjusted Dermal RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Adjusted Dermal Slope Factor (mg/kg-day)$^{-1}$	Risk unitless
Acetone*	0 113									
Benzene*	0 009									
2-Butanone*	0 029									
o-Xylene*	0 009									
Acenaphthene	0 074	1 30E-01	1 15E-05	1 11E-07	6 0E-02	2E-06	4 94E-06	4 75E-08		
Acenaphthylene	0 052	1 30E-01	1 15E-05	7 80E-08			4 94E-06	3 34E-08		
Anthracene	0 115	1 30E-01	1 15E-05	1 72E-07	3 0E-01	6E-07	4 94E-06	7 39E-08		
Benzo(a)anthracene	0 299	1 30E-01	1 15E-05	4 48E-07			4 94E-06	1 92E-07	7 3E-01	1E-07
Benzo(b)fluoranthene	0 268	1 30E-01	1 15E-05	4 02E-07			4 94E-06	1 72E-07	7 3E-01	1E-07
Benzo(k)fluoranthene	0 263	1 30E-01	1 15E-05	3 94E-07			4 94E-06	1 69E-07	7 3E-02	1E-08
Benzo(g,h i)perylene	0 344	1 30E-01	1 15E-05	5 16E-07			4 94E-06	2 21E-07		
Benzo(a)pyrene	0 312	1 30E-01	1 15E-05	4 68E-07			4 94E-06	2 00E-07	7 3E+00	1E-06
Chrysene	0 532	1 30E-01	1 15E-05	7 98E-07			4 94E-06	3 42E-07	7 3E-03	2E-09
Dibenzo(a,h)anthracene	0 063	1 30E-01	1 15E-05	9 45E-08			4 94E-06	4 05E-08	7 3E+00	3E-07
Fluoranthene	0 763	1 30E-01	1 15E-05	1 14E-06	4 0E-02	3E-05	4 94E-06	4 90E-07		
Fluorene	0 111	1 30E-01	1 15E-05	1 66E-07	4 0E-02	4E-06	4 94E-06	7 13E-08		
Indeno(1,2,3-cd)pyrene	0 251	1 30E-01	1 15E-05	3 76E-07			4 94E-06	1 61E-07	7 3E-01	1E-07
Naphthalene	0 613	1 30E-01	1 15E-05	9 19E-07	2 0E-02	5E-05	4 94E-06	3 94E-07		
Phenanthrene	0 58	1 30E-01	1 15E-05	8 70E-07			4 94E-06	3 73E-07		
Pyrene	1 08	1 30E-01	1 15E-05	1 62E-06	3 0E-02	5E-05	4 94E-06	6 94E-07		
Beryllium*	1 144									
Chromium*	19 192									
Copper*	32 983									
Mercury*	0 099									
Nickel*	32 284									
Thallium*	2.222									
			Total Pathway Hazard Index--------->			1E-04	Total Pathway Risk----->			2E-06

DERMAL CONTACT WITH SOIL

CS = Concentration of chemical in soil (mg/kg) See Table 10

ABS = Default value from Rags Part E (USEPA 2004c).

1 00E-06 CF = 0 000001 kg/mg - Conversion Factor

5 70E+03 SAa = 5 700 sq cm - Skin Surface Area available for an adult. (USEPA 2004c)

2 80E+03 SAc = 2 800 sq cm - Skin Surface Area available for a child. (USEPA 2004c)

2 40E+01 EDa = 24 yr - Exposure Duration for an adult. (USEPA 1991)

6.00E+00 EDc = 6 yr - Exposure Duration for a child (USEPA 1991)

3 50E+02 EFa = 350 days/yr - Exposure Frequency for an adult. (USEPA 1991)

3 50E+02 EFc = 350 days/yr - Exposure Frequency for a child. (USEPA 1991)

7 00E+01 BWa = 70 kg - Body Weight for an adult (USEPA 1991)

1 50E+01 BWc = 15 kg - Body Weight for a child (USEPA 1991)

1 095E+04 ATn = 10 950 days - Averaging Time for noncarcinogenic compounds (USEPA 1991)

2 555E+04 ATc = 25 550 days - Averaging Time for carcinogenic compounds (USEPA 1991)

7 00E-02 AFa = 0 07 mg/cm2 - Soil to Skin Adherence Factor (USEPA 2004c)

2 00E-01 AFc = 0 2 mg/cm2 - Soil to Skin Adherence Factor (USEPA 2004c)

HIF--NONCARCINOGENIC----------> 1 15E-05 HIF = ((SAa * EFa * EDa * AFa / BWa) + (SAc * EFc * EDc* AFc / BWc)) * CF / (ATn)

HIF--CARCINOGENIC----------> 4 94E-06 HIF = ((SAa * EFa * Eda * AFa / BWa) + (SAc * EFc * Edc * AFc / BWc)) * CF / (ATc)

DAILY INTAKE = (CS * ABS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

NOTE:

* BTEX compounds and inorganics excluded from dermal risk assessment (USEPA 2004c)

Table 30
Inhalation of Chemicals in Fugitive Dust
Reasonable Maximum Exposure (RME)
Post-Remediation Resident 2
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

		Chronic Noncarcinogenic Effects					Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	RME Conc (CS) mg/kg	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Inhalation RfC mg/m^3	Inhalation RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Inhalation SF $(mg/kg\text{-}day)^{-1}$ or UR $(ug/m^3)^{-1}$	Inhalation Risk unitless
Acetone	0.113	2.63E-10	2.97E-11				1.13E-10	1.27E-11		
Benzene	0.009	2.63E-10	2.37E-12	3.0E-02	8.6E-03	3E-10	1.13E-10	1.01E-12	2.7E-02	3E-14
2-Butanone	0.029	2.63E-10	7.62E-12	5.0E+00	1.4E+00	5E-12	1.13E-10	3.27E-12		
o-Xylene	0.009	2.63E-10	2.37E-12	1.0E-01	2.9E-02	8E-11	1.13E-10	1.01E-12		
Acenaphthene	0.074	2.63E-10	1.95E-11				1.13E-10	8.34E-12		
Acenaphthylene	0.052	2.63E-10	1.37E-11				1.13E-10	5.86E-12		
Anthracene	0.115	2.63E-10	3.02E-11				1.13E-10	1.30E-11		
Benzo(a)anthracene (1, 2)	0.299	7.26E-10	2.17E-10				3.11E-10	9.31E-11	8.8E-05	8E-15
Benzo(b)fluoranthene (1,2)	0.268	7.26E-10	1.95E-10				3.11E-10	8.34E-11	8.8E-05	7E-15
Benzo(k)fluoranthene (1,2)	0.263	7.26E-10	1.91E-10				3.11E-10	8.19E-11	8.8E-06	7E-16
Benzo(g,h,i)perylene	0.344	2.63E-10	9.04E-11				1.13E-10	3.88E-11		
Benzo(a)pyrene (1, 2)	0.312	7.26E-10	2.27E-10				3.11E-10	9.71E-11	8.8E-04	9E-14
Chrysene (1, 2)	0.532	7.26E-10	3.86E-10				3.11E-10	1.66E-10	8.8E-07	1E-16
Dibenzo(a,h)anthracene (1, 2)	0.063	7.26E-10	4.58E-11				3.11E-10	1.96E-11	8.8E-04	2E-14
Fluoranthene	0.763	2.63E-10	2.01E-10				1.13E-10	8.60E-11		
Fluorene	0.111	2.63E-10	2.92E-11				1.13E-10	1.25E-11		
Indeno(1,2,3-cd)pyrene (1, 2)	0.251	7.26E-10	1.82E-10				3.11E-10	7.81E-11	8.8E-05	7E-15
Naphthalene(1)	0.613	7.26E-10	4.45E-10	3.0E-03		1E-07	3.11E-10	1.91E-10		
Phenanthrene	0.58	2.63E-10	1.52E-10				1.13E-10	6.54E-11		
Pyrene	1.08	2.63E-10	2.84E-10				1.13E-10	1.22E-10		
Beryllium (1, 2)	1.144	7.26E-10	8.31E-10	2.0E-05		4E-05	3.11E-10	3.56E-10	2.4E-03	9E-10
Chromium (1, 2, 3)	19.192	7.26E-10	1.39E-08	1.0E-04		1E-04	3.11E-10	5.98E-09	1.2E-02	7E-08
Copper	32.983	2.63E-10	8.67E-09				1.13E-10	3.72E-09		
Mercury	0.099	2.63E-10	2.60E-11	3.0E-04	8.6E-05	3E-07	1.13E-10	1.12E-11		
Nickel	32.284	2.63E-10	8.49E-09				1.13E-10	3.64E-09		
Thallium	2.222	2.63E-10	5.84E-10				1.13E-10	2.50E-10		
			Total Pathway Hazard Index-------->			2E-04		Total Pathway Risk---->		7E-08

INHALATION DUE TO FUGITIVE DUST

CS = Concentration of chemical in soil (mg/kg) See Table 10

1.32E+09 PEF = 1.320 000 000 m^3/kg - Particulate Emission Factor (IAC 2002)

2.00E+01 IRa = 20 m^3/day - Inhalation Rate of an adult (USEPA 1991)

1.00E+01 IRc = 10 m^3/day - Inhalation Rate of a child (USEPA 1997a)

3.50E+02 EFa = 350 days/yr - Exposure Frequency for an adult (USEPA 1991)

3.50E+02 EFc = 350 days/yr - Exposure Frequency for a child (USEPA 1991)

2.40E+01 EDa = 24 yr - Exposure Duration for an adult (USEPA 1991)

6.00E+00 EDc = 6 yr - Exposure Duration for a child (USEPA 1991)

7.00E+01 BWa = 70 kg - Body Weight for an adult (USEPA 1991)

1.50E+01 BWc = 15 kg - Body Weight for a child (USEPA 1991)

1.095E+04 ATn = 10 950 days - Averaging Time for noncarcinogenic compounds (USEPA 1991)

2.555E+04 ATc =25 550 days - Averaging Time for carcinogenic compounds (USEPA 1991)

HIF--NONCARCINOGENIC----------> 2.63E-10 HIF = (((IRa * EFa * EDa) / BWa) + ((IRc * EFc * EDc) / BWc)) / (PEF * ATn)

HIF--CARCINOGENIC----------> 1.13E-10 HIF = (((IRa * EFa * EDa) / BWa) + ((IRc * EFc * EDc) / BWc)) / (PEF * ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

FOR NAPHTHALENE BERYLLIUM AND CHROMIUM:

HIF--NONCARCINOGENIC----------> 7.26E-10 HIF = ((EFa * EDa) + (EFc * EDc)) / (PEF * ATn)

HIF--CARCINOGENIC----------> 3.11E-10 HIF = ((EFa * EDa) + (EFc * EDc)) / (PEF * ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfC)

RISK (carcinogenic) = (INTAKE * UR * 1000 ug/mg)

NOTES:

(1) Units for HIF are kg/m^3 and units for Daily Intake are mg/m^3

(2) Unit Risk (UR) $(ug/m^3)^{-1}$ is used to calculate carcinogenic risk

(3) Chromium concentration is total chromium RfC and UR are for chromium VI particulates

Table 31
Inhalation of Chemicals in Vapor Phase
Reasonable Maximum Exposure (RME)
Post-Remediation Resident 2
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

			Noncarcinogenic Effects					Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	RME Conc (CS) mg/kg	Volatilization Factor (VF) m^3/kg	Human Intake Factor (HIF) m^3/kg-day OR unitless *	Daily Intake mg/kg-day OR mg/m^3 *	Inhalation RfC mg/m^3 **	Inhalation RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) m^3/kg-day OR unitless *	Daily Intake mg/kg-day OR mg/m^3 *	Inhalation Slope Factor (SF) $(mg/kg\text{-}day)^{-1}$ or Unit Risk (UR) $(ug/m^3)^{-1}$ *	Inhalation Risk unitless
Acetone	0 113	4 71E+04	3 47E-01	8 33E-07				1 49E-01	3 57E-07		
Benzene	0 009	8 38E+03	3 47E-01	3 73E-07	3 0E-02	8 6E-03	4E-05	1 49E-01	1 60E-07	2 7E-02	4E-09
2-Butanone	0 029	5 84E+04	3 47E-01	1 72E-07	5 0E+00	1 4E+00	1E-07	1 49E-01	7 38E-08		
o-Xylene	0 009	1 46E+04	3 47E-01	2 14E-07	1 0E-01	2 9E-02	7E-06	1 49E-01	9 18E-08		
Naphthalene*	0.613	1.17E+05	9.59E-01	5.02E-06	3.0E-03		2E-03	4.11E-01	2.15E-06		
				Total Pathway Hazard Index-------->			2E-03		Total Pathway Risk---->		4E-09

INHALATION OF CHEMICALS IN VAPOR PHASE

CS = Concentration of chemical in soil (mg/kg) See Table 10

VF = Volatization factor See Table 14

2 00E+01 IRa = 20 m^3/day - Inhalation Rate of an adult (USEPA 1991)

1 00E+01 IRc = 10 m^3/day - Inhalation Rate of a child (USEPA 1997a)

3 50E+02 EFa = 350 days/yr - Exposure Frequency for an adult (USEPA 1991)

3 50E+02 EFc = 350 days/yr - Exposure Frequency for a child (USEPA 1991)

2 40E+01 EDa = 24 yr - Exposure Duration for an adult (USEPA 1991)

6 00E+00 EDc = 6 yr - Exposure Duration for a child (USEPA 1991)

7 00E+01 BWa = 70 kg - Body Weight for an adult (USEPA 1991)

1 50E+01 BWc = 15 kg - Body Weight for a child (USEPA 1991)

1 095E+04 ATn = 10 950 days - Averaging Time for noncarcinogenic compounds (USEPA 1991)

2 555E+04 ATc =25 550 days - Averaging Time for carcinogenic compounds (USEPA 1991)

HIF--NONCARCINOGENIC----------> 3 47E-01 HIF = (((IRa * EFa * EDa) / BWa) + ((IRc * EFc * EDc) / BWc)) / (ATn)

HIF--CARCINOGENIC----------> 1 49E-01 HIF = (((IRa * EFa * EDa) / BWa) + ((IRc * EFc * EDc) / BWc)) / (ATc)

DAILY INTAKE = (CS * HIF) / (VF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* FOR NAPHTHALENE:

HIF--NONCARCINOGENIC----------> 9 59E-01 HIF = ((EFa * EDa) + (EFc * EDc)) / (ATn)

HIF--CARCINOGENIC----------> 4 11E-01 HIF = ((EFa * EDa) + (EFc * EDc)) / (ATc)

DAILY INTAKE = (CS * HIF) / (VF)

HQ (noncarcinogenic) = (INTAKE / RfC)

RISK (carcinogenic) = (INTAKE * UR * 1000 ug/mg)

Table 32
Incidental Ingestion of Soil
Central Tendency (CT)
Post-Remediation Resident 2
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

		Chronic Noncarcinogenic Effects				Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	RME Conc (CS) mg/kg	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Oral RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Oral Slope Factor $(mg/kg\text{-}day)^{-1}$	Risk unitless
Acetone	0 113	1 95E-06	2 21E-07	9 0E-01	2E-07	2 51E-07	2 84E-08		
Benzene	0.009	1 95E-06	1 76E-08	4 0E-03	4E-06	2 51E-07	2 26E-09	5 5E-02	1E-10
2-Butanone	0.029	1 95E-06	5 66E-08	6 0E-01	9E-08	2 51E-07	7 28E-09		
o-Xylene	0.009	1 95E-06	1 76E-08	2 0E-01	9E-08	2 51E-07	2 26E-09		
Acenaphthene	0.074	1 95E-06	1 45E-07	6 0E-02	2E-06	2 51E-07	1 86E-08		
Acenaphthylene	0.052	1 95E-06	1 02E-07			2 51E-07	1 31E-08		
Anthracene	0.115	1 95E-06	2 25E-07	3 0E-01	7E-07	2 51E-07	2 89E-08		
Benzo(a)anthracene	0.299	1 95E-06	5 84E-07			2 51E-07	7 51E-08	7 3E-01	5E-08
Benzo(b)fluoranthene	0.268	1 95E-06	5 23E-07			2 51E-07	6 73E-08	7 3E-01	5E-08
Benzo(k)fluoranthene	0.263	1 95E-06	5 14E-07			2 51E-07	6 61E-08	7 3E-02	5E-09
Benzo(g,h,i)perylene	0 344	1 95E-06	6 72E-07			2 51E-07	8 64E-08		
Benzo(a)pyrene	0 312	1 95E-06	6 09E-07			2 51E-07	7 84E-08	7 3E+00	6E-07
Chrysene	0 532	1 95E-06	1 04E-06			2 51E-07	1 34E-07	7 3E-03	1E-09
Dibenzo(a,h)anthracene	0 063	1 95E-06	1 23E-07			2 51E-07	1 58E-08	7 3E+00	1E-07
Fluoranthene	0 763	1 95E-06	1 49E-06	4 0E-02	4E-05	2 51E-07	1 92E-07		
Fluorene	0.111	1 95E-06	2 17E-07	4 0E-02	5E-06	2 51E-07	2 79E-08		
Indeno(1,2,3-cd)pyrene	0 251	1 95E-06	4 90E-07			2 51E-07	6 30E-08	7 3E-01	5E-08
Naphthalene	0.613	1 95E-06	1 20E-06	2 0E-02	6E-05	2 51E-07	1 54E-07		
Phenanthrene	0 58	1 95E-06	1 13E-06			2 51E-07	1 46E-07		
Pyrene	1 08	1 95E-06	2 11E-06	3 0E-02	7E-05	2 51E-07	2 71E-07		
Beryllium	1 144	1 95E-06	2 23E-06	2 0E-03	1E-03	2 51E-07	2 87E-07		
Chromium*	19 192	1 95E-06	3 75E-05	3 0E-03	1E-02	2 51E-07	4 82E-06		
Copper	32 983	1 95E-06	6 44E-05	4 0E-02	2E-03	2 51E-07	8 28E-06		
Mercury	0 099	1 95E-06	1 93E-07			2 51E-07	2 49E-08		
Nickel	32 284	1 95E-06	6 31E-05	2 0E-02	3E-03	2 51E-07	8 11E-06		
Thallium	2.222	1.95E-06	4.34E-06			2.51E-07	5.58E-07		
		Total Pathway Hazard Index--------->			2E-02	Total Pathway Risk----->			8E-07

INCIDENTIAL INGESTION OF SOIL

CS = Concentration of chemical in soil (mg/kg). See Table 10

1 00E-06 CF = 0 000001 kg/mg - Conversion Factor

5 00E+01 IRa = 50 mg/day - Ingestion Rate of soil by an adult, (USEPA 1991)

1 00E+02 IRc = 100 mg/day - Ingestion Rate of soil by a child, (USEPA 1991)

7 00E+00 EDa = 7 yr - Exposure Duration for an adult. (USEPA 1991)

2 00E+00 EDc = 2 yr - Exposure Duration for a child, (USEPA 1991)

3 50E+02 EFa = 350 days/yr - Exposure Frequency for an adult, (USEPA 1991)

3 50E+02 EFc = 350 days/yr - Exposure Frequency for a child, (USEPA 1991)

7 00E+01 BWa = 70 kg - Body Weight for an adult, (USEPA 1991)

1 500E+01 BWc = 15 kg - Body Weight for a child, (USEPA 1991)

3 285E+03 ATn = 3,285 days - Averaging Time for noncarcinogenic compounds, (USEPA 1991)

2 555E+04 ATc = 25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

1 00E+00 FIa = 1 - Fraction Ingested, (USEPA 1989)

1 00E+00 FIc = 1 - Fraction Ingested (USEPA 1989)

HIF--NONCARCINOGENIC----------> 1 95E-06 HIF = ((IRa * EFa * EDa * FIa / BWa) + (IRc * EFc * EDc * FIc / BWc)) * CF / (ATn)

HIF--CARCINOGENIC----------> 2 51E-07 HIF = ((IRa * EFa * EDa * FIa / BWa) + (IRc * EFc * EDc * FIc / BWc)) * CF / (ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* Chromium concentration is total chromium, RfD is for chromium VI particulates.

Table 33
Dermal Contact with Soil
Central Tendency (CT)
Post-Remediation Resident 2
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Chemicals of Potential Concern	RME Conc (CS) mg/kg	Absorption Factor (ABS) unitless	Chronic Noncarcinogenic Effects: Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Adjusted Dermal RfD mg/kg-day	Hazard Quotient (HQ) unitless	Lifetime Carcinogenic Effects: Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Adjusted Dermal Slope Factor kg-day/mg	Risk unitless
Acetone*	0.113									
Benzene*	0.009									
2-Butanone*	0.029									
o-Xylene*	0 009									
Acenaphthene	0 074	1 30E-01	2 20E-06	2 11E-08	6 0E-02	4E-07	2 83E-07	2 72E-09		
Acenaphthylene	0 052	1 30E-01	2 20E-06	1 49E-08			2 83E-07	1 91E-09		
Anthracene	0 115	1 30E-01	2 20E-06	3 29E-08	3 0E-01	1E-07	2 83E-07	4 23E-09		
Benzo(a)anthracene	0 299	1 30E-01	2 20E-06	8 55E-08			2 83E-07	1 10E-08	7 3E-01	8E-09
Benzo(b)fluoranthene	0 268	1 30E-01	2 20E-06	7 66E-08			2 83E-07	9 85E-09	7 3E-01	7E-09
Benzo(k)fluoranthene	0 263	1 30E-01	2 20E-06	7 52E-08			2 83E-07	9 66E-09	7 3E-02	7E-10
Benzo(g,h,i)perylene	0 344	1 30E-01	2 20E-06	9 83E-08			2 83E-07	1 26E-08		
Benzo(a)pyrene	0 312	1 30E-01	2 20E-06	8 92E-08			2 83E-07	1 15E-08	7 3E+00	8E-08
Chrysene	0 532	1 30E-01	2 20E-06	1 52E-07			2 83E-07	1 95E-08	7 3E-03	1E-10
Dibenzo(a,h)anthracene	0 063	1 30E-01	2 20E-06	1 80E-08			2 83E-07	2 31E-09	7 3E+00	2E-08
Fluoranthene	0 763	1 30E-01	2 20E-06	2 18E-07	4 0E-02	5E-06	2 83E-07	2 80E-08		
Fluorene	0 111	1 30E-01	2 20E-06	3 17E-08	4 0E-02	8E-07	2 83E-07	4 08E-09		
Indeno(1,2,3-cd)pyrene	0 251	1 30E-01	2 20E-06	7 17E-08			2 83E-07	9 22E-09	7 3E-01	7E-09
Naphthalene	0 613	1 30E-01	2 20E-06	1 75E-07	2 0E-02	9E-06	2 83E-07	2 25E-08		
Phenanthrene	0 58	1 30E-01	2 20E-06	1 66E-07			2 83E-07	2 13E-08		
Pyrene	1 08	1 30E-01	2 20E-06	3 09E-07	3 0E-02	1E-05	2 83E-07	3 97E-08		
Beryllium*	1 144									
Chromium*	19 192									
Copper*	32 983									
Mercury*	0 099									
Nickel*	32 284									
Thallium*	2 222									
			Total Pathway Hazard Index--------->			3E-05		Total Pathway Risk----->		1E-07

DERMAL CONTACT WITH SOIL

CS = Concentration of chemical in soil (mg/kg). See Table 10

ABS = Default value from Rags Part E (USEPA 2004c)

1 00E-06 CF = 0 000001 kg/mg - Conversion Factor

5 70E+03 SAa = 5,700 sq cm - Skin Surface Area available for an adult, (USEPA 2004c)

2 80E+03 SAc = 2,800 sq cm - Skin Surface Area available for an child, (USEPA 2004c)

7 00E+00 EDa = 7 yr - Exposure Duration for an adult, (USEPA 1991)

2 00E+00 EDc = 2 yr - Exposure Duration for a child, (USEPA 1991)

3 50E+02 EFa = 350 days/yr - Exposure Frequency for an adult, (USEPA 1991)

3 50E+02 EFc = 350 days/yr - Exposure Frequency for a child, (USEPA 1991)

7 00E+01 BWa = 70 kg - Body Weight for an adult, (USEPA 1991)

1 50E+01 BWc = 15 kg - Body Weight for a child, (USEPA 1991)

3 285E+03 ATn = 3 285 days - Averaging Time for noncarcinogenic compounds, (USEPA 1991)

2 555E+04 ATc = 25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

1 00E-02 AFa = 0 01 mg/cm2 - Soil to Skin Adherence Factor (USEPA 2004c)

4 00E-02 AFc = 0 04 mg/cm2 - Soil to Skin Adherence Factor, (USEPA 2004c)

HIF--NONCARCINOGENIC----------> 2 20E-06 HIF = ((SAa * EFa * Eda * AFa / BWa) + (SAc * EFc * EDc * AFc / BWc)) * CF / (ATn)

HIF--CARCINOGENIC----------> 2 83E-07 HIF = ((SAa * EFa * EDa * AFa / BWa) + (SAc * EFc * EDc * AFc / BWc)) * CF / (ATc)

DAILY INTAKE = (CS * ABS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

NOTE:

* BTEX compounds and inorganics excluded from dermal risk assessment (USEPA 2004c)

Table 34
Inhalation of Chemicals in Fugitive Dust
Central Tendency (CT)
Post-Remediation Resident 2
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

		Chronic Noncarcinogenic Effects					Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	RME Conc (CS) mg/kg	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Inhalation RfC mg/m^3	Inhalation RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Inhalation SF $(mg/kg\text{-}day)^{-1}$ or UR $(ug/m^3)^{-1}$	Inhalation Risk unitless
Acetone	0.113	2.69E-10	3.04E-11				3.46E-11	3.91E-12		
Benzene	0.009	2.69E-10	2.42E-12	3.0E-02	8.6E-03	3E-10	3.46E-11	3.11E-13	2.7E-02	8E-15
2-Butanone	0.029	2.69E-10	7.80E-12	5.0E+00	1.4E+00	5E-12	3.46E-11	1.00E-12		
o-Xylene	0.009	2.69E-10	2.42E-12	1.0E-01	2.9E-02	8E-11	3.46E-11	3.11E-13		
Acenaphthene	0.074	2.69E-10	1.99E-11				3.46E-11	2.56E-12		
Acenaphthylene	0.052	2.69E-10	1.40E-11				3.46E-11	1.80E-12		
Anthracene	0.115	2.69E-10	3.09E-11				3.46E-11	3.98E-12		
Benzo(a)anthracene (1, 2)	0.299	7.26E-10	2.17E-10				9.34E-11	2.79E-11	8.8E-05	2E-15
Benzo(b)fluoranthene (1,2)	0.268	7.26E-10	1.95E-10				9.34E-11	2.50E-11	8.8E-05	2E-15
Benzo(k)fluoranthene (1,2)	0.263	7.26E-10	1.91E-10				9.34E-11	2.46E-11	8.8E-06	2E-16
Benzo(g,h,i)perylene	0.344	2.69E-10	9.26E-11				3.46E-11	1.19E-11		
Benzo(a)pyrene (1, 2)	0.312	7.26E-10	2.27E-10				9.34E-11	2.91E-11	8.8E-04	3E-14
Chrysene (1, 2)	0.532	7.26E-10	3.86E-10				9.34E-11	4.97E-11	8.8E-07	4E-17
Dibenzo(a,h)anthracene (1, 2)	0.063	7.26E-10	4.58E-11				9.34E-11	5.88E-12	8.8E-04	5E-15
Fluoranthene	0.763	2.69E-10	2.05E-10				3.46E-11	2.64E-11		
Fluorene	0.111	2.69E-10	2.99E-11				3.46E-11	3.84E-12		
Indeno(1,2,3-cd)pyrene (1, 2)	0.251	7.26E-10	1.82E-10				9.34E-11	2.34E-11	8.8E-05	2E-15
Naphthalene(1)	0.613	7.26E-10	4.45E-10	3.0E-03		1E-07	9.34E-11	5.73E-11		
Phenanthrene	0.58	2.69E-10	1.56E-10				3.46E-11	2.01E-11		
Pyrene	1.08	2.69E-10	2.91E-10				3.46E-11	3.74E-11		
Beryllium (1, 2)	1.144	7.26E-10	8.31E-10	2.0E-05		4E-05	9.34E-11	1.07E-10	2.4E-03	3E-10
Chromium (1, 2, 3)	19.192	7.26E-10	1.39E-08	1.0E-04		1E-04	9.34E-11	1.79E-09	1.2E-02	2E-08
Copper	32.983	2.69E-10	8.87E-09				3.46E-11	1.14E-09		
Mercury	0.099	2.69E-10	2.66E-11	3.0E-04	8.6E-05	3E-07	3.46E-11	3.42E-12		
Nickel	32.284	2.69E-10	8.69E-09				3.46E-11	1.12E-09		
Thallium	2.222	2.69E-10	5.98E-10				3.46E-11	7.69E-11		
			Total Pathway Hazard Index-------->			2E-04		Total Pathway Risk---->		2E-08

INHALATION DUE TO FUGITIVE DUST

CS = Concentration of chemical in soil (mg/kg) See Table 10

1.32E+09 PEF = 1,320,000,000 m^3/kg - Particulate Emission Factor, (IAC 2002)

2.00E+01 IRa = 20 m^3/day - Inhalation Rate of an adult, (USEPA 1991)

1.00E+01 IRc = 10 m^3/day - Inhalation Rate of a child, (USEPA 1997a)

3.50E+02 EFa = 350 days/yr - Exposure Frequency for an adult, (USEPA 1991)

3.50E+02 EFc = 350 days/yr - Exposure Frequency for a child, (USEPA 1991)

7.00E+00 EDa = 7 yr - Exposure Duration for an adult, (USEPA 1991)

2.00E+00 EDc = 2 yr - Exposure Duration for a child, (USEPA 1991)

7.00E+01 BWa = 70 kg - Body Weight for an adult, (USEPA 1991)

1.50E+01 BWc = 15 kg - Body Weight for a child, (USEPA 1991)

3.285E+03 ATn = 3,285 days - Averaging Time for noncarcinogenic compounds, (USEPA 1991)

2.555E+04 ATc = 25,550 days - Averaging Time for carcinogenic compounds. (USEPA 1991)

HIF--NONCARCINOGENIC----------> 2.69E-10 HIF = (((IRa * EFa * EDa) / BWa) + ((IRc * EFc * EDc) / BWc)) / (PEF * ATn)

HIF--CARCINOGENIC----------> 3.46E-11 HIF = (((IRa * EFa * EDa) / BWa) + ((IRc * EFc * EDc) / BWc)) / (PEF * ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

FOR NAPHTHALENE, BERYLLIUM, AND CHROMIUM:

HIF--NONCARCINOGENIC----------> 7.26E-10 HIF = ((EFa * EDa)+(EFc * EDc)) / (PEF * ATn)

HIF--CARCINOGENIC----------> 9.34E-11 HIF = ((EFa * EDa)+(EFc * EDc)) / (PEF * ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfC)

RISK (carcinogenic) = (INTAKE * UR * 1000 ug/mg)

NOTES:

(1) Units for HIF are kg/m^3 and units for Daily Intake are mg/m^3.

(2) Unit Risk (UR) $(ug/m^3)^{-1}$ is used to calculate carcinogenic risk

(3) Chromium concentration is total chromium, RfC and UR are for chromium VI particulates

Table 35
Inhalation of Chemicals in Vapor Phase
Central Tendency (CT)
Post-Remediation Resident 2
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

			Noncarcinogenic Effects					Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	CT Conc (CS) mg/kg	Volatization Factor (VF) m^3/kg	Human Intake Factor (HIF) m^3/kg-day OR unitless *	Daily Intake mg/kg-day OR mg/m^3 *	Inhalation RfC mg/m^3 *	Inhalation RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) m^3/kg-day OR unitless *	Daily Intake mg/kg-day OR mg/m^3 *	Inhalation Slope Factor (SF) $(mg/kg\text{-}day)^{-1}$ or Unit Risk (UR) $(ug/m^3)^{-1}$ *	Inhalation Risk unitless
Acetone	0 113	2 56E+04	3 55E-01	1 57E-06				4 57E-02	2 02E-07		
Benzene	0 009	4 55E+03	3 55E-01	7 02E-07	3 0E-02	8 6E-03	8E-05	4 57E-02	9 03E-08	2 7E-02	2E-09
2-Butanone	0 029	3 17E+04	3 55E-01	3 25E-07	5 0E+00	1 4E+00	2E-07	4 57E-02	4 18E-08		
o-Xylene	0 009	7 92E+03	3 55E-01	4 04E-07	1 0E-01	2 9E-02	1E-05	4 57E-02	5 19E-08		
Naphthalene*	0.613	6.36E+04	9.59E-01	9.24E-06	3.0E-03		3E-03	1.23E-01	1.19E-06		
				Total Pathway Hazard Index-------->			3E-03		Total Pathway Risk---->		2E-09

INHALATION OF CHEMICALS IN VAPOR PHASE

CS = Concentration of chemical in soil (mg/kg). See Table 10

VF = Volatization factor. See Table 14

2 00E+01 IRa = 20 m^3/day - Inhalation Rate of an adult. (USEPA 1991)

1 00E+01 IRc = 10 m^3/day - Inhalation Rate of a child, (USEPA 1997a)

3 50E+02 EFa = 350 days/yr - Exposure Frequency for an adult, (USEPA 1991)

3 50E+02 EFc = 350 days/yr - Exposure Frequency for a child, (USEPA 1991)

7 00E+00 EDa = 7 yr - Exposure Duration for an adult, (USEPA 1991)

2 00E+00 EDc = 2 yr - Exposure Duration for a child, (USEPA 1991)

7 00E+01 BWa = 70 kg - Body Weight for an adult, (USEPA 1991)

1 50E+01 BWc = 15 kg - Body Weight for a child, (USEPA 1991)

3 285E+03 ATn = 3,285 days - Averaging Time for noncarcinogenic compounds, (USEPA 1991)

2 555E+04 ATc =25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

3 55E-01 HIF = (((IRa * EFa * EDa) / BWa) + ((IRc * EFc * EDc) / BWc)) / (ATn)

HIF--NONCARCINOGENIC----------> 4 57E-02 HIF = (((IRa * EFa * EDa) / BWa) + ((IRc * EFc * EDc) / BWc)) / (ATc)

HIF--CARCINOGENIC----------> DAILY INTAKE = (CS * HIF) / (VF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* FOR NAPHTHALENE:

9 59E-01 HIF = ((EFa * EDa) + (EFc * EDc)) / (ATn)

HIF--NONCARCINOGENIC----------> 1 23E-01 HIF = ((EFa * EDa) + (EFc * EDc)) / (ATc)

HIF--CARCINOGENIC----------> DAILY INTAKE = (CS * HIF) / (VF)

HQ (noncarcinogenic) = (INTAKE / RfC)

RISK (carcinogenic) = (INTAKE * UR * 1000 ug/mg)

Table 36
Values Used For Daily Intake Calculations
Post-Remediation Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Subsurface Soil
Exposure Point: Subsurface Soil
Receptor Population: Utility Worker
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	CT Value	CT Rationale/ Reference	Intake Equation
Ingestion	CS	Chemical Concentration in Soil	mg/kg	See Table 11	See Table 11	See Table 11	See Table 11	Daily Intake (DI) (mg/kg-day) =
	IR	Ingestion Rate of Soil	mg/day	330	USEPA 2002a	100	USEPA 1997a	CS x IR x EF x ED x FI x CF x 1/BW x 1/AT
	FI	Fraction Ingested	--	0.8	(1)	0.5	(1)	
	EF	Exposure Frequency	days/year	20	(1)	10	(1)	
	ED	Exposure Duration	years	1	(1)	1	(1)	
	CF	Conversion Factor (mg to kg)	kg/mg	1E-06	--	1E-06	--	
	BW	Body Weight	kg	70	USEPA 1991	70	USEPA 1991	
	ATc	Averaging Time (Cancer)	days	25,550	USEPA 1991	25,550	USEPA 1991	
	ATn	Averaging Time (Non-Cancer)	days	28	(1)	14	(1)	
Dermal	CS	Chemical Concentration in Soil	mg/kg	See Table 11	See Table 11	See Table 11	See Table 11	DI (mg/kg-day) =
	CF	Conversion Factor (mg to kg)	kg/mg	1E-06	--	1E-06	--	CS x SA x CF x AF x ABS x EF x ED x 1/BW x 1/AT
	AF	Soil to Skin Adherence Factor	mg/cm^2	0.9	USEPA 2004c	0.2	USEPA 2004c	
	ABS	Absorption Factor	--	Chemical Specific See Table 38	USEPA 2004c	Chemical Specific See Table 42	USEPA 2004c	
	SA	Skin Surface Area Available for Contact	cm^2	3,300	USEPA 2004c	3,300	USEPA 2004c	
	EF	Exposure Frequency	days/years	20	(1)	10	(1)	
	ED	Exposure Duration	years	1	(1)	1	(1)	
	BW	Body Weight	kg	70	USEPA 1991	70	USEPA 1991	
	ATc	Averaging Time (Cancer)	days	25,550	USEPA 1991	25,550	USEPA 1991	
	ATn	Averaging Time (Non-Cancer)	days	28	(1)	14	(1)	

Note:

(1) Assumed value based on expected activity patterns of utility worker. Work to be completed within 1 year. EF: RME = 4 weeks, 5 days/week CT = 2 weeks, 5 days/week. ATn: RME = 4 weeks, 7 days/week CT = 2 weeks, 7 days/week.

SOURCES:

USEPA 1991: Risk Assessment Guidance for Superfund. Vol.1: Human Health Evaluation Manual - Supplemental Guidance, Standard Default Exposure Factors. Interim Final. OSWER Directive 9285.6-03, March 15.

USEPA 1997a: Exposure Factors Handbook: Volume I - General Factors, August.

USEPA 2002a: Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. OSWER Directive 9355.4-24, December.

USEPA 2004c: Risk Assessment Guidance for Superfund. Vol.1: Human Health Evaluation Manual Part E - Supplemental Guidance for Dermal Risk Assessment, Final. OSWER Directive 9285.7-02EP, July.

Table 36 (Continued)
Values Used For Daily Intake Calculations
Post-Remediation Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Subsurface Soil
Exposure Point: Subsurface Soil
Receptor Population: Utility Worker
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	CT Value	CT Rationale/ Reference	Intake Equation
Inhalation of	CS	COPC Concentration in Soil	mg/kg	See Table 11	See Table 11	See Table 11	See Table 11	DI (mg/kg-day) =
Fugitive Dust	IR	Inhalation Rate	m^3/day	20	(1)	12	(1)	CS x IR x EF x ED/BW x AT x PEF
	PEF	Particulate Emission Factor	m^3/kg	1.24E+08	IAC 2002	1.24E+08	IAC 2002	
	EF	Exposure Frequency	days/year	20	(2)	10	(2)	DI for use with RfC/UR (mg/m^3) =
	ED	Exposure Duration	years	1	(2)	1	(2)	CS x EF x ED/AT x PEF
	BW	Body Weight	kg	70	USEPA 1991	70	USEPA 1991	
	ATc	Averaging Time (Cancer)	days	25,550	USEPA 1991	25,550	USEPA 1991	
	ATn	Averaging Time (Non-Cancer)	days	28	(2)	14	(2)	
Inhalation of	CA	COPC Concentration in Air	mg/m^3	See Table 11	See Table 11	See Table 11	See Table 11	DI (mg/kg-day) =
Vapor Phase	VF	Volatilazion Factor	m^3/kg	See Table 16	See Tables 15-16	See Table 16	See Tables 15-16	CA x IR x EF x ED/(BW x AT x VF'
COPCS	IR	Inhalation Rate	m^3/day	20	(1)	12	(1)	
	EF	Exposure Frequency	days/year	20	(2)	10	(2)	
	ED	Exposure Duration	years	1	(2)	1	(2)	DI for use with RfC (mg/m^3) =
	BW	Body Weight	kg	70	USEPA 1991	70	USEPA 1991	CS x EF x ED/(AT x VF')
	ATc	Averaging Time (Cancer)	days	25,550	USEPA 1991	25,550	USEPA 1991	
	ATn	Averaging Time (Non-Cancer)	days	28	(2)	14	(2)	

Notes:

(1) Assumes 8 hours a day of heavy activity (2.5 m^3/hr) for the RME value and 8 hours of moderate activity (1.5 m^3/hr) for the CT value (USEPA 1997a).

(2) Assumed value based on expected activity patterns of utility worker. Work to be completed within 1 year. EF: RME = 4 weeks, 5 days/week CT = 2 weeks, 5 days/week. ATn: RME = 4 weeks, 7 days/week CT = 2 weeks, 7 days/week.

SOURCES:

Illinois Administrative Code (IAC), 2002: Title 35: Environmental Protection, Subtitle G, Chapter I, Pollution Control Board, Subchapter f, Part 742: Tiered Approach to Corrective Action Objectives (TACO), Appendix C, Table B, February.

USEPA 1991: Risk Assessment Guidance for Superfund. Vol.1: Human Health Evaluation Manual - Supplemental Guidance, Standard Default Exposure Factors. Interim Final. OSWER Directive 9285.6-03, March 15.

USEPA 1997a: Exposure Factors Handbook: Volume 1 - General Factors, August.

Table 37
Incidental Ingestion of Soil
Reasonable Maximum Exposure (RME)
Post-Remediation Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

		Noncarcinogenic Effects				Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	RME Conc (CS) mg/kg	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Oral RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Oral Slope Factor $(mg/kg\text{-}day)^{-1}$	Risk unitless
Acetone	0.32	2.69E-06	8.62E-07	1.0E+00	9E-07	2.95E-09	9.45E-10		
Benzene	0.015	2.69E-06	4.04E-08	4.0E-03	1E-05	2.95E-09	4.43E-11	5.5E-02	2E-12
2-Butanone	0.072	2.69E-06	1.94E-07	2.0E+00	1E-07	2.95E-09	2.13E-10		
Ethylbenzene	0.049	2.69E-06	1.32E-07	1.0E-01	1E-06	2.95E-09	1.45E-10		
o-Xylene	0.025	2.69E-06	6.73E-08	2.0E-01	3E-07	2.95E-09	7.38E-11		
Bis(2-ethylhexyl)phthalate	0.45	2.69E-06	1.21E-06	2.0E-02	6E-05	2.95E-09	1.33E-09	1.4E-02	2E-11
Carbazole	0.47	2.69E-06	1.27E-06			2.95E-09	1.39E-09	2.0E-02	3E-11
Acenaphthene	0.19	2.69E-06	5.12E-07	6.0E-01	9E-07	2.95E-09	5.61E-10		
Acenaphthylene	0.13	2.69E-06	3.50E-07			2.95E-09	3.84E-10		
Anthracene	0.3	2.69E-06	8.08E-07	3.0E+00	3E-07	2.95E-09	8.86E-10		
Benzo(a)anthracene	0.43	2.69E-06	1.16E-06			2.95E-09	1.27E-09	7.3E-01	9E-10
Benzo(b)fluoranthene	0.36	2.69E-06	9.70E-07			2.95E-09	1.06E-09	7.3E-01	8E-10
Benzo(k)fluoranthene	0.39	2.69E-06	1.05E-06			2.95E-09	1.15E-09	7.3E-02	8E-11
Benzo(g,h,i)perylene	0.48	2.69E-06	1.29E-06			2.95E-09	1.42E-09		
Benzo(a)pyrene	0.52	2.69E-06	1.40E-06			2.95E-09	1.54E-09	7.3E+00	1E-08
Chrysene	0.67	2.69E-06	1.80E-06			2.95E-09	1.98E-09	7.3E-03	1E-11
Dibenzo(a,h)anthracene	0.13	2.69E-06	3.50E-07			2.95E-09	3.84E-10	7.3E+00	3E-09
Fluoranthene	1.1	2.69E-06	2.96E-06	4.0E-01	7E-06	2.95E-09	3.25E-09		
Fluorene	0.31	2.69E-06	8.35E-07	4.0E-01	2E-06	2.95E-09	9.15E-10		
Indeno(1,2,3-cd)pyrene	0.35	2.69E-06	9.43E-07			2.95E-09	1.03E-09	7.3E-01	8E-10
Naphthalene	0.28	2.69E-06	7.54E-07	2.0E-02	4E-05	2.95E-09	8.27E-10		
Phenanthrene	1	2.69E-06	2.69E-06			2.95E-09	2.95E-09		
Pyrene	1.2	2.69E-06	3.23E-06	3.0E-01	1E-05	2.95E-09	3.54E-09		
Arsenic	15	2.69E-06	4.04E-05	3.0E-04	1E-01	2.95E-09	4.43E-08	1.5E+00	7E-08
Beryllium	1.3	2.69E-06	3.50E-06	5.0E-03	7E-04	2.95E-09	3.84E-09		
Chromium*	21	2.69E-06	5.66E-05	2.0E-02	3E-03	2.95E-09	6.20E-08		
Copper	39	2.69E-06	1.05E-04	4.0E-02	3E-03	2.95E-09	1.15E-07		
Lead	41	2.69E-06	1.10E-04			2.95E-09	1.21E-07		
Mercury	0.28	2.69E-06	7.54E-07			2.95E-09	8.27E-10		
Nickel	39	2.69E-06	1.05E-04	2.0E-02	5E-03	2.95E-09	1.15E-07		
Thallium	4.2	2.69E-06	1.13E-05			2.95E-09	1.24E-08		
		Total Pathway Hazard Index---------->			1E-01	Total Pathway Risk----->			8E-08

(1) Adjustment Factor applied to Unit Risk to calcul

HIF--NONCARCINOGENIC---------->

HIF--CARCINOGENIC---------->

INCIDENTAL INGESTION OF SOIL

CS = Concentration of chemical in soil (mg/kg). See Table 11

1.00E-06 CF = 0.000001 kg/mg - Conversion Factor

3.30E+02 IR = 330 mg/day - Ingestion Rate of soil for a Utility Worker. (USEPA 2002a)

1.00E+00 ED = 1 yr - Exposure Duration for a Utility Worker, (assumed value)

2.00E+01 EF = 20 days/yr - Exposure Frequency for a Utility Worker, (assumed value)

7.00E+01 BW = 70 kg - Body Weight for an adult, (USEPA 1991)

2.80E+01 ATn = 28 days - Averaging Time for noncarcinogenic compounds. (assumed value)

2.555E+04 ATc = 25,550 days - Averaging Time for carcinogenic compounds (USEPA 1991)

8.00E-01 FI = 0.8 - Fraction Ingested. (Professional judgement)

2.69E-06 HIF = (IR * EF * ED * FI / BW) * CF / (ATn)

2.95E-09 HIF = (IR * EF * ED * FI / BW) * CF / (ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* Chromium concentration is total chromium, RfD is for chromium VI particulates

Table 38
Dermal Contact with Soil
Reasonable Maximum Exposure (RME)
Post-Remediation Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

			Noncarcinogenic Effects				Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	RME Conc (CS) mg/kg	Absorption Factor (ABS) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Adjusted Dermal RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Adjusted Dermal Slope Factor $(mg/kg\text{-}day)^{-1}$	Risk unitless
Acetone*	0 32									
Benzene*	0 015									
2-Butanone*	0 072									
Ethylbenzene*	0 049									
o-Xylene*	0 025									
Bis(2-ethylhexyl)phthalate	0 45	1 00E-01	3 03E-05	1 36E-06	2 0E-02	7E-05	3 32E-08	1 49E-09	1 4E-02	2E-11
Carbazole	0 47	1 00E-01	3 03E-05	1 42E-06			3 32E-08	1 56E-09	2 0E-02	3E-11
Acenaphthene	0 19	1 30E-01	3 03E-05	7 49E-07	6 0E-01	1E-06	3 32E-08	8 20E-10		
Acenaphthylene	0 13	1 30E-01	3 03E-05	5 12E-07			3 32E-08	5 61E-10		
Anthracene	0 3	1 30E-01	3 03E-05	1 18E-06	3 0E+00	4E-07	3 32E-08	1 30E-09		
Benzo(a)anthracene	0 43	1 30E-01	3 03E-05	1 69E-06			3 32E-08	1 86E-09	7 3E-01	1E-09
Benzo(b)fluoranthene	0 36	1 30E-01	3 03E-05	1 42E-06			3 32E-08	1 55E-09	7 3E-01	1E-09
Benzo(k)fluoranthene	0 39	1 30E-01	3 03E-05	1 54E-06			3 32E-08	1 68E-09	7 3E-02	1E-10
Benzo(g,h,i)perylene	0 48	1 30E-01	3 03E-05	1 89E-06			3 32E-08	2 07E-09		
Benzo(a)pyrene	0 52	1 30E-01	3 03E-05	2 05E-06			3 32E-08	2 25E-09	7 3E+00	2E-08
Chrysene	0 67	1 30E-01	3 03E-05	2 64E-06			3 32E-08	2 89E-09	7 3E-03	2E-11
Dibenzo(a,h)anthracene	0 13	1 30E-01	3 03E-05	5 12E-07			3 32E-08	5 61E-10	7 3E+00	4E-09
Fluoranthene	1 1	1 30E-01	3 03E-05	4 33E-06	4 0E-01	1E-05	3 32E-08	4 75E-09		
Fluorene	0 31	1 30E-01	3 03E-05	1 22E-06	4 0E-01	3E-06	3 32E-08	1 34E-09		
Indeno(1,2,3-cd)pyrene	0 35	1 30E-01	3 03E-05	1 38E-06			3 32E-08	1 51E-09	7 3E-01	1E-09
Naphthalene	0 28	1 30E-01	3 03E-05	1 10E-06	2 0E-02	6E-05	3 32E-08	1 21E-09		
Phenanthrene	1	1 30E-01	3 03E-05	3 94E-06			3 32E-08	4 32E-09		
Pyrene	1 2	1 30E-01	3 03E-05	4 73E-06	3 0E-01	2E-05	3 32E-08	5 18E-09		
Arsenic	15	3 00E-02	3 03E-05	1 36E-05	2 9E-04	5E-02	3 32E-08	1 49E-08	1 6E+00	2E-08
Beryllium*	1 3									
Chromium*	21									
Copper*	39									
Lead*	41									
Mercury*	0 28									
Nickel*	39									
Thallium*	4.2									
			Total Pathway Hazard Index--------->			5E-02	Total Pathway Risk----->			5E-08

DERMAL CONTACT WITH SOIL

CS = Concentration of chemical in soil (mg/kg) See Table 11

ABS = Default value from Rags Part E (USEPA 2004c)

1 00E-06 CF = 0 000001 kg/mg - Conversion Factor

3 30E+03 SA = 3,300 sq cm - Skin Surface Area available for a Utility Worker, (USEPA 2004c)

1 00E+00 ED = 1 yr - Exposure Duration for a Utility Worker, (assumed value)

2 00E+01 EF = 20 days/yr - Exposure Frequency for a Utility Worker (assumed value)

7 00E+01 BW = 70 kg - Body Weight for an adult, (USEPA 1991)

2 80E+01 ATn = 28 days - Averaging Time for noncarcinogenic compounds, (assumed value)

2 555E+04 ATc = 25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

9 00E-01 AF = 0 9 mg/cm^2 - Soil to Skin Adherence Factor for a Utility Worker, (USEPA 2004c)

HIF--NONCARCINOGENIC---------> 3 03E-05 HIF = (SA * EF * ED* AF / BW)* CF / (ATn)

HIF--CARCINOGENIC-------------> 3 32E-08 HIF = (SA* EF * ED * AF / BW) * CF / (ATc)

DAILY INTAKE = (CS * ABS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

NOTE:

* BTEX compounds and inorganics excluded from dermal risk assessment (USEPA 2004c).

Table 39
Inhalation of Chemicals in Fugitive Dust
Reasonable Maximum Exposure (RME)
Post-Remediation Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

		Noncarcinogenic Effects					Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	RME Conc (CS) mg/kg	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Inhalation RfC mg/m^3	Inhalation RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Inhalation SF $(mg/kg\text{-}day)^{-1}$ or UR $(ug/m^3)^{-1}$	Inhalation Risk unitless
Acetone	0 32	1 65E-09	5 27E-10				1 80E-12	5 77E-13		
Benzene	0 015	1 65E-09	2 47E-11	3 0E-02	8 6E-03	3E-09	1 80E-12	2 71E-14	2 7E-02	7E-16
2-Butanone	0 072	1 65E-09	1 18E-10	1 0E+00	2 9E-01	4E-10	1 80E-12	1 30E-13		
Ethylbenzene	0 049	1 65E-09	8 06E-11	1 0E+00	2 9E-01	3E-10	1 80E-12	8 84E-14		
o-Xylene	0 025	1 65E-09	4 11E-11	1 0E-01	2 9E-02	1E-09	1 80E-12	4 51E-14		
Bis(2-ethylhexyl)phthalate	0 45	1 65E-09	7 41E-10				1 80E-12	8 12E-13		
Carbazole	0 47	1 65E-09	7 74E-10				1 80E-12	8 48E-13		
Acenaphthene	0 19	1 65E-09	3 13E-10				1 80E-12	3 43E-13		
Acenaphthylene	0 13	1 65E-09	2 14E-10				1 80E-12	2 34E-13		
Anthracene	0 3	1 65E-09	4 94E-10				1 80E-12	5 41E-13		
Benzo(a)anthracene (1, 2)	0 43	5 76E-09	2 48E-09				6 31E-12	2 71E-12	8 8E-05	2E-13
Benzo(b)fluoranthene (1,2)	0 36	5 76E-09	2 07E-09				6 31E-12	2 27E-12	8 8E-05	2E-13
Benzo(k)fluoranthene (1,2)	0 39	5 76E-09	2 25E-09				6 31E-12	2 46E-12	8 8E-06	2E-14
Benzo(g,h,i)perylene	0 48	1 65E-09	7 90E-10				1 80E-12	8 66E-13		
Benzo(a)pyrene (1, 2)	0 52	5 76E-09	3 00E-09				6 31E-12	3 28E-12	8 8E-04	3E-12
Chrysene (1, 2)	0 67	5 76E-09	3 86E-09				6 31E-12	4 23E-12	8 8E-07	4E-15
Dibenzo(a,h)anthracene (1, 2)	0 13	5 76E-09	7 49E-10				6 31E-12	8 21E-13	8 8E-04	7E-13
Fluoranthene	1 1	1 65E-09	1 81E-09				1 80E-12	1 98E-12		
Fluorene	0 31	1 65E-09	5 10E-10				1 80E-12	5 59E-13		
Indeno(1,2,3-cd)pyrene (1, 2)	0 35	5 76E-09	2 02E-09				6 31E-12	2 21E-12	8 8E-05	2E-13
Naphthalene(1)	0 28	5 76E-09	1 61E-09	3 0E-03		5E-07	6 31E-12	1 77E-12		
Phenanthrene	1	1 65E-09	1 65E-09				1 80E-12	1 80E-12		
Pyrene	1 2	1 65E-09	1 97E-09				1 80E-12	2 16E-12		
Arsenic (1, 2)	15	5 76E-09	8 64E-08				6 31E-12	9 47E-11	4 3E-03	4E-10
Beryllium (1, 2)	1 3	5 76E-09	7 49E-09	2 0E-05		4E-04	6 31E-12	8 21E-12	2 4E-03	2E-11
Chromium (1, 2, 3)	21	5 76E-09	1 21E-07	1 0E-04		1E-03	6 31E-12	1 33E-10	1 2E-02	2E-09
Copper	39	1 65E-09	6 42E-08				1 80E-12	7 03E-11		
Lead	41	1 65E-09	6 75E-08				1 80E-12	7 39E-11		
Mercury	0 28	1 65E-09	4 61E-10	3 0E-04	8 6E-05	5E-06	1 80E-12	5 05E-13		
Nickel	39	1 65E-09	6 42E-08				1 80E-12	7 03E-11		
Thallium	4 2	1 65E-09	6 91E-09				1 80E-12	7 58E-12		
		Total Pathway Hazard Index-------->				2E-03	Total Pathway Risk---->			2E-09

INHALATION DUE TO FUGITIVE DUST

CS = Concentration of chemical in soil (mg/kg). See Table 11

1 24E+08 PEF = 124,000 000 m^3/kg - Particulate Emission Factor. (IAC 2002)

2 00E+01 IR = 20 m^3/day - Inhalation Rate of a Utility Worker, (USEPA 1997a)

2 00E+01 EF = 20 days/yr - Exposure Frequency for a Utility Worker. (assumed value)

1 00E+00 ED = 1 yr - Exposure Duration for a Utility Worker, (assumed value)

7 00E+01 BW = 70 kg - Body Weight for an adult, (USEPA 1991)

2 80E+01 ATn = 28 days - Averaging Time for noncarcinogenic compounds, (assumed value)

2 555E+04 ATc = 25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

HIF--NONCARCINOGENIC--------> 1 65E-09 HIF = (IR * EF * ED) / (BW * PEF * ATn)

HIF--CARCINOGENIC----------> 1 80E-12 HIF = (IR * EF * ED) / (BW * PEF * ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* FOR CARCINOGENIC PAHS, NAPHTHALENE, ARSENIC, BERYLLIUM, CADMIUM AND CHROMIUM:

HIF--NONCARCINOGENIC--------> 5 76E-09 HIF = (EF * ED) / (PEF * ATn)

HIF--CARCINOGENIC----------> 6 31E-12 HIF = (EF * ED) / (PEF * ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfC)

RISK (carcinogenic) = (INTAKE * UR * 1000 ug/mg)

NOTES:

(1) Units for HIF are kg/m^3 and units for Daily Intake are mg/m^3

(2) Unit Risk (UR) $(ug/m^3)^{-1}$ is used to calculate carcinogenic risk

(3) Chromium concentration is total chromium. RfC and slope factor are for chromium VI particulates

Table 40
Inhalation of Chemicals in Vapor Phase
Reasonable Maximum Exposure (RME)
Post-Remediation Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

			Noncarcinogenic Effects					Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	RME Conc (CS) mg/kg	Volatization Factor (VF') m^3/kg	Human Intake Factor (HIF) m^3/kg-day OR unitless *	Daily Intake mg/kg-day OR mg/m^3 *	Inhalation RfC mg/m^3 **	Inhalation RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) m^3/kg-day OR unitless *	Daily Intake mg/kg-day OR mg/m^3 *	Inhalation Slope Factor (SF) $(mg/kg\text{-}day)^{-1}$	Inhalation Risk unitless
Acetone	0.32	1.16E+02	2.04E-01	5.63E-04				2.24E-04	6.17E-07		
Benzene	0.015	2.06E+01	2.04E-01	1.48E-04	3.0E-02	8.6E-03	2E-02	2.24E-04	1.62E-07	2.7E-02	4E-09
2-Butanone	0.072	1.44E+02	2.04E-01	1.02E-04	1.0E+00	2.9E-01	4E-04	2.24E-04	1.12E-07		
Ethylbenzene	0.049	3.16E+01	2.04E-01	3.16E-04	1.0E+00	2.9E-01	1E-03	2.24E-04	3.46E-07		
o-Xylene	0.025	3.59E+01	2.04E-01	1.42E-04	1.0E-01	2.9E-02	5E-03	2.24E-04	1.56E-07		
Naphthalene*	0.28	2.88E+02	7.14E-01	6.93E-04	3.0E-03		2E-01	7.83E-04	7.60E-07		
				Total Pathway Hazard Index--------->			3E-01		Total Pathway Risk---->		4E-09

INHALATION OF CHEMICALS IN VAPOR PHASE

CS = Concentration of chemical in soil (mg/kg). See Table 11

VF' = Volatization factor adjusted for agitaion. See Table 15

2.00E+01 IR = 20 m^3/day - Inhalation Rate of a Utility Worker, (USEPA 1997a)

2.00E+01 EF = 20 days/yr - Exposure Frequency for a Utility Worker, (assumed value)

1.00E+00 ED = 1 year - Exposure Duration for a Utility Worker, (assumed value)

7.00E+01 BW = 70 kg - Body Weight for an adult, (USEPA 1991)

2.80E+01 ATn = 28 days - Averaging Time for noncarcinogenic compounds, (assumed value)

2.555E+04 ATc = 25,550 days- Averaging Time for carcinogenic compounds, (USEPA 1991)

HIF--NONCARCINOGENIC---------> 2.04E-01 HIF = (IR * EF * ED) / (BW * ATn)

HIF--CARCINOGENIC----------> 2.24E-04 HIF = (IR * EF * ED) / (BW * ATc)

DAILY INTAKE = (CS * HIF) / (VF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* FOR NAPHTHALENE:

HIF--NONCARCINOGENIC----------> 7.14E-01 HIF = (EF * ED) / (ATn)

HIF--CARCINOGENIC----------> 7.83E-04 HIF = (EF * ED) / (ATc)

DAILY INTAKE = (CS * HIF) / (VF)

HQ (noncarcinogenic) = (INTAKE / RfC)

RISK (carcinogenic) = (INTAKE * UR * 1000 ug/mg)

Table 41
Incidental Ingestion of Soil
Central Tendency (CT)
Post-Remediation Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

		Noncarcinogenic Effects				Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	CT Conc (CS) mg/kg	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Oral RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Oral Slope Factor $(mg/kg\text{-}day)^{-1}$	Risk unitless
Acetone	0 32	5 10E-07	1 63E-07	1 0E+00	2E-07	2 80E-10	8 95E-11		
Benzene	0.015	5 10E-07	7 65E-09	4 0E-03	2E-06	2 80E-10	4 19E-12	5 5E-02	2E-13
2-Butanone	0.072	5 10E-07	3 67E-08	2 0E+00	2E-08	2 80E-10	2 01E-11		
Ethylbenzene	0.049	5 10E-07	2 50E-08	1 0E-01	3E-07	2 80E-10	1 37E-11		
o-Xylene	0.025	5 10E-07	1 28E-08	2 0E-01	6E-08	2 80E-10	6 99E-12		
Bis(2-ethylhexyl)phthalate	0 45	5 10E-07	2 30E-07	2 0E-02	1E-05	2 80E-10	1 26E-10	1 4E-02	2E-12
Carbazole	0 47	5 10E-07	2 40E-07			2 80E-10	1 31E-10	2 0E-02	3E-12
Acenaphthene	0.19	5 10E-07	9 69E-08	6 0E-01	2E-07	2 80E-10	5 31E-11		
Acenaphthylene	0.13	5 10E-07	6 63E-08			2 80E-10	3 63E-11		
Anthracene	0 3	5 10E-07	1 53E-07	3 0E+00	5E-08	2 80E-10	8 39E-11		
Benzo(a)anthracene	0 43	5 10E-07	2 19E-07			2 80E-10	1 20E-10	7 3E-01	9E-11
Benzo(b)fluoranthene	0 36	5 10E-07	1 84E-07			2 80E-10	1 01E-10	7 3E-01	7E-11
Benzo(k)fluoranthene	0 39	5 10E-07	1 99E-07			2 80E-10	1 09E-10	7 3E-02	8E-12
Benzo(g,h,i)perylene	0 48	5 10E-07	2 45E-07			2 80E-10	1 34E-10		
Benzo(a)pyrene	0 52	5 10E-07	2 65E-07			2 80E-10	1 45E-10	7 3E+00	1E-09
Chrysene	0 67	5 10E-07	3 42E-07			2 80E-10	1 87E-10	7 3E-03	1E-12
Dibenzo(a,h)anthracene	0 13	5 10E-07	6 63E-08			2 80E-10	3 63E-11	7 3E+00	3E-10
Fluoranthene	1 1	5 10E-07	5 61E-07	4 0E-01	1E-06	2 80E-10	3 08E-10		
Fluorene	0 31	5 10E-07	1 58E-07	4 0E-01	4E-07	2 80E-10	8 67E-11		
Indeno(1,2,3-cd)pyrene	0 35	5 10E-07	1 79E-07			2 80E-10	9 78E-11	7 3E-01	7E-11
Naphthalene	0 28	5 10E-07	1 43E-07	2 0E-02	7E-06	2 80E-10	7 83E-11		
Phenanthrene	1	5 10E-07	5 10E-07			2 80E-10	2 80E-10		
Pyrene	1 2	5 10E-07	6 12E-07	3 0E-01	2E-06	2 80E-10	3 35E-10		
Arsenic	15	5 10E-07	7 65E-06	3 0E-04	3E-02	2 80E-10	4 19E-09	1 5E+00	6E-09
Beryllium	1 3	5 10E-07	6 63E-07	5 0E-03	1E-04	2 80E-10	3 63E-10		
Chromium*	21	5 10E-07	1 07E-05	2 0E-02	5E-04	2 80E-10	5 87E-09		
Copper	39	5 10E-07	1 99E-05	4 0E-02	5E-04	2 80E-10	1 09E-08		
Lead	41	5 10E-07	2 09E-05			2 80E-10	1 15E-08		
Mercury	0 28	5 10E-07	1 43E-07			2 80E-10	7 83E-11		
Nickel	39	5 10E-07	1 99E-05	2 0E-02	1E-03	2 80E-10	1 09E-08		
Thallium	4.2	5.10E-07	2.14E-06			2.80E-10	1.17E-09		
		Total Pathway Hazard Index--------->			3E-02	Total Pathway Risk----->			8E-09

INCIDENTAL INGESTION OF SOIL

CS = Concentration of chemical in soil (mg/kg) See Table 11

1 00E-06 CF = 0 000001 kg/mg - Conversion Factor

1 00E+02 IR = 100 mg/day - Ingestion Rate of soil for a Utility Worker, (USEPA 2002a)

1 00E+00 ED = 1 yr - Exposure Duration for a Utility Worker, (assumed value)

1 00E+01 EF = 10 days/yr - Exposure Frequency for a Utility Worker (assumed value)

7 00E+01 BW = 70 kg - Body Weight for an adult, (USEPA 1991)

1 40E+01 ATn = 14 days - Averaging Time for noncarcinogenic compounds. (assumed value)

2 555E+04 ATc = 25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

5 00E-01 FI = 0 5 - Fraction Ingested, (Professional judgement)

HIF--NONCARCINOGENIC----------> 5 10E-07 HIF = (IR * EF * ED * FI / BW) * CF / (ATn)

HIF--CARCINOGENIC----------> 2 80E-10 HIF = (IR * EF * ED * FI / BW) * CF / (ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* Chromium concentration is total chromium, RfD is for chromium VI particulates

Table 42
Dermal Contact with Soil
Central Tendency (CT)
Post-Remediation Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

			Noncarcinogenic Effects				Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	CT Conc (CS) mg/kg	Absorption Factor (ABS) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Adjusted Dermal RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Adjusted Dermal Slope Factor $(mg/kg\text{-}day)^{-1}$	Risk unitless
Acetone*	0 32									
Benzene*	0 015									
2-Butanone*	0 072									
Ethylbenzene*	0 049									
o-Xylene*	0 025									
Bis(2-ethylhexyl)phthalate	0 45	1 00E-01	6 73E-06	3 03E-07	2 0E-02	2E-05	3 69E-09	1 66E-10	1 4E-02	2E-12
Carbazole	0 47	1 00E-01	6 73E-06	3 17E-07			3 69E-09	1 73E-10	2 0E-02	3E-12
Acenaphthene	0 19	1 30E-01	6 73E-06	1 66E-07	6 0E-01	3E-07	3 69E-09	9 11E-11		
Acenaphthylene	0 13	1 30E-01	6 73E-06	1 14E-07			3 69E-09	6 24E-11		
Anthracene	0 3	1 30E-01	6 73E-06	2 63E-07	3 0E+00	9E-08	3 69E-09	1 44E-10		
Benzo(a)anthracene	0 43	1 30E-01	6 73E-06	3 76E-07			3 69E-09	2 06E-10	7 3E-01	2E-10
Benzo(b)fluoranthene	0 36	1 30E-01	6 73E-06	3 15E-07			3 69E-09	1 73E-10	7 3E-01	1E-10
Benzo(k)fluoranthene	0 39	1 30E-01	6 73E-06	3 41E-07			3 69E-09	1 87E-10	7 3E-02	1E-11
Benzo(g,h,i)perylene	0 48	1 30E-01	6 73E-06	4 20E-07			3 69E-09	2 30E-10		
Benzo(a)pyrene	0 52	1 30E-01	6 73E-06	4 55E-07			3 69E-09	2 49E-10	7 3E+00	2E-09
Chrysene	0 67	1 30E-01	6 73E-06	5 87E-07			3 69E-09	3 21E-10	7 3E-03	2E-12
Dibenzo(a,h)anthracene	0 13	1 30E-01	6 73E-06	1 14E-07			3 69E-09	6 24E-11	7 3E+00	5E-10
Fluoranthene	1 1	1 30E-01	6 73E-06	9 63E-07	4 0E-01	2E-06	3 69E-09	5 28E-10		
Fluorene	0 31	1 30E-01	6 73E-06	2 71E-07	4 0E-01	7E-07	3 69E-09	1 49E-10		
Indeno(1,2,3-cd)pyrene	0 35	1 30E-01	6 73E-06	3 06E-07			3 69E-09	1 68E-10	7 3E-01	1E-10
Naphthalene	0 28	1 30E-01	6 73E-06	2 45E-07	2 0E-02	1E-05	3 69E-09	1 34E-10		
Phenanthrene	1	1 30E-01	6 73E-06	8 76E-07			3 69E-09	4 80E-10		
Pyrene	1 2	1 30E-01	6 73E-06	1 05E-06	3 0E-01	4E-06	3 69E-09	5 76E-10		
Arsenic	15	3 00E-02	6 73E-06	3 03E-06	2 9E-04	1E-02	3 69E-09	1 66E-09	1 6E+00	3E-09
Beryllium*	1 3									
Chromium*	21									
Copper*	39									
Lead*	41									
Mercury*	0 28									
Nickel*	39									
Thallium*	4.2									
			Total Pathway Hazard Index--------->			1E-02	Total Pathway Risk----->			5E-09

DERMAL CONTACT WITH SOIL

CS = Concentration of chemical in soil (mg/kg). See Table 11

ABS = Default value from Rags Part E (USEPA 2004c)

1 00E-06 CF = 0 000001 kg/mg - Conversion Factor

3 30E+03 SA = 3,300 sq cm - Skin Surface Area available for a Utility Worker, (USEPA 2004c)

1 00E+00 ED = 1 yr - Exposure Duration for a Utility Worker, (assumed value)

1 00E+01 EF = 10 days/yr - Exposure Frequency for a Utility Worker, (assumed value)

7 00E+01 BW = 70 kg - Body Weight for an adult, (USEPA 1991)

1 40E+01 ATn = 14 days - Averaging Time for noncarcinogenic compounds, (assumed value)

2 555E+04 ATc = 25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

2 00E-01 AF = 0 2 mg/cm^2 - Soil to Skin Adherence Factor for a Utility Worker, (USEPA 2004c)

HIF--NONCARCINOGENIC---------> 6 73E-06 HIF = (SA * EF * ED* AF / BW)* CF / (ATn)

HIF--CARCINOGENIC----------> 3 69E-09 HIF = (SA* EF * ED * AF / BW) * CF / (ATc)

DAILY INTAKE = (CS * ABS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

NOTE:

* BTEX compounds and inorganics excluded from dermal risk assessment (USEPA 2004c).

Table 43
Inhalation of Chemicals in Fugitive Dust
Central Tendency (CT)
Post-Remediation Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

		Noncarcinogenic Effects					Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	CT Conc (CS) mg/kg	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Inhalation RfC mg/m^3	Inhalation RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Inhalation SF $(mg/kg\text{-}day)^{-1}$ or UR $(ug/m^3)^{-1}$	Inhalation Risk unitless
Acetone	0 32	9 87E-10	3 16E-10				5 41E-13	1.73E-13		
Benzene	0 015	9 87E-10	1 48E-11	3 0E-02	8 6E-03	2E-09	5 41E-13	8 12E-15	2 7E-02	2E-16
2-Butanone	0 072	9 87E-10	7.11E-11	1 0E+00	2 9E-01	2E-10	5 41E-13	3 90E-14		
Ethylbenzene	0 049	9 87E-10	4 84E-11	1 0E+00	2 9E-01	2E-10	5 41E-13	2 65E-14		
o-Xylene	0 025	9 87E-10	2 47E-11	1 0E-01	2 9E-02	9E-10	5 41E-13	1 35E-14		
Bis(2-ethylhexyl)phthalate	0 45	9 87E-10	4 44E-10				5 41E-13	2 43E-13		
Carbazole	0 47	9 87E-10	4 64E-10				5 41E-13	2 54E-13		
Acenaphthene	0 19	9 87E-10	1 88E-10				5 41E-13	1 03E-13		
Acenaphthylene	0 13	9 87E-10	1 28E-10				5 41E-13	7 03E-14		
Anthracene	0 3	9 87E-10	2 96E-10				5 41E-13	1 62E-13		
Benzo(a)anthracene (1, 2)	0 43	5 76E-09	2 48E-09				3 16E-12	1 36E-12	8 8E-05	1E-13
Benzo(b)fluoranthene (1,2)	0 36	5 76E-09	2 07E-09				3 16E-12	1 14E-12	8 8E-05	1E-13
Benzo(k)fluoranthene (1,2)	0 39	5 76E-09	2 25E-09				3 16E-12	1 23E-12	8 8E-06	1E-14
Benzo(g,h,i)perylene	0 48	9 87E-10	4 74E-10				5 41E-13	2 60E-13		
Benzo(a)pyrene (1, 2)	0 52	5 76E-09	3 00E-09				3 16E-12	1 64E-12	8 8E-04	1E-12
Chrysene (1, 2)	0 67	5 76E-09	3 86E-09				3 16E-12	2 11E-12	8 8E-07	2E-15
Dibenzo(a,h)anthracene (1, 2)	0 13	5 76E-09	7 49E-10				3 16E-12	4 10E-13	8 8E-04	4E-13
Fluoranthene	1 1	9 87E-10	1 09E-09				5 41E-13	5 95E-13		
Fluorene	0 31	9 87E-10	3 06E-10				5 41E-13	1 68E-13		
Indeno(1,2,3-cd)pyrene (1, 2)	0 35	5 76E-09	2 02E-09				3 16E-12	1 10E-12	8 8E-05	1E-13
Naphthalene(1)	0 28	5 76E-09	1 61E-09	3 0E-03		5E-07	3 16E-12	8 84E-13		
Phenanthrene	1	9 87E-10	9 87E-10				5 41E-13	5 41E-13		
Pyrene	1 2	9 87E-10	1 18E-09				5 41E-13	6 49E-13		
Arsenic (1, 2)	15	5 76E-09	8 64E-08				3 16E-12	4 73E-11	4 3E-03	2E-10
Beryllium (1, 2)	1 3	5 76E-09	7 49E-09	2 0E-05		4E-04	3 16E-12	4 10E-12	2 4E-03	1E-11
Chromium (1, 2, 3)	21	5 76E-09	1 21E-07	1 0E-04		1E-03	3 16E-12	6 63E-11	1 2E-02	8E-10
Copper	39	9 87E-10	3 85E-08				5 41E-13	2 11E-11		
Lead	41	9 87E-10	4 05E-08				5 41E-13	2 22E-11		
Mercury	0 28	9 87E-10	2 76E-10	3 0E-04	8 6E-05	3E-06	5 41E-13	1 52E-13		
Nickel	39	9 87E-10	3 85E-08				5 41E-13	2 11E-11		
Thallium	4.2	9.87E-10	4.15E-09				5.41E-13	2.27E-12		
			Total Pathway Hazard Index-------->			2E-03		Total Pathway Risk---->		1E-09

INHALATION DUE TO FUGITIVE DUST

CS = Concentration of chemical in soil (mg/kg) See Table 11

1 24E+08 PEF = 124,000,000 m^3/kg - Particulate Emission Factor, (IAC 2002)

1 20E+01 IR = 12 m^3/day - Inhalation Rate of a Utility Worker, (USEPA 1997a)

1 00E+01 EF = 10 days/yr - Exposure Frequency for a Utility Worker, (assumed value)

1 00E+00 ED = 1 yr - Exposure Duration for a Utility Worker, (assumed value)

7 00E+01 BW = 70 kg - Body Weight for an adult. (USEPA 1991)

1 40E+01 ATn = 14 days - Averaging Time for noncarcinogenic compounds. (assumed value)

2 555E+04 ATc = 25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

HIF--NONCARCINOGENIC---------> 9 87E-10 HIF = (IR * EF * ED) / (BW * PEF * ATn)

HIF--CARCINOGENIC----------> 5 41E-13 HIF = (IR * EF * ED) / (BW * PEF * ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* FOR CARCINOGENIC PAHS, NAPHTHALENE, ARSENIC, BERYLLIUM, CADMIUM AND CHROMIUM:

HIF--NONCARCINOGENIC---------> 5 76E-09 HIF = (EF * ED) / (PEF * ATn)

HIF--CARCINOGENIC----------> 3 16E-12 HIF = (EF * ED) / (PEF * ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfC)

RISK (carcinogenic) = (INTAKE * UR * 1000 ug/mg)

NOTES:

(1) Units for HIF are kg/m^3 and units for Daily Intake are mg/m^3

(2) Unit Risk (UR) $(ug/m^3)^{-1}$ is used to calculate carcinogenic risk

(3) Chromium concentration is total chromium, RfC and slope factor are for chromium VI particulates

Table 44
Inhalation of Chemicals in Vapor Phase
Central Tendency (CT)
Post-Remediation Utility Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

			Noncarcinogenic Effects					Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	CI Conc (CS)	Volatilization Factor (VF')	Human Intake Factor (HIF)	Daily Intake	Inhalation RfC	Inhalation RfD	Hazard Quotient (HQ)	Human Intake Factor (HIF)	Daily Intake	Inhalation Slope Factor (SF)	Inhalation Risk
	mg/kg	m^3/kg	m^3/kg-day OR unitless *	mg/kg-day OR mg/m^3 *	mg/m^3	mg/kg-day	unitless	m^3/kg-day OR unitless *	mg/kg-day OR mg/m^3 *	$(mg/kg\text{-}day)^{-1}$	unitless
Acetone	0 32	8 20E+01	1 22E-01	4 78E-04				6 71E-05	2 62E-07		
Benzene	0 015	1 46E+01	1 22E-01	1 26E-04	3 0E-02	8 6E-03	1E-02	6 71E-05	6 89E-08	2 7E-02	2E-09
2-Butanone	0 072	1 02E+02	1 22E-01	8 67E-05	1 0E+00	2 9E-01	3E-04	6 71E-05	4 75E-08		
Ethylbenzene	0 049	2 24E+01	1 22E-01	2 68E-04	1 0E+00	2 9E-01	9E-04	6 71E-05	1 47E-07		
o-Xylene	0 025	2 54E+01	1 22E-01	1 21E-04	1 0E-01	2 9E-02	4E-03	6 71E-05	6 60E-08		
Naphthalene *	0 28	2 04E+02	7 14E-01	9 81E-04	3 0E-03		3E-01	3 91E-04	5 37E-07		
				Total Pathway Hazard Index--------->			3E-01		Total Pathway Risk---->		2E-09

INHALATION OF CHEMICALS IN VAPOR PHASE

CS = Concentration of chemical in soil (mg/kg) See Table 11

VF' = Volatization factor adjusted for agitaion See Table 15

1 20E+01 IR = 12 m^3/day - Inhalation Rate of a Utility Worker, (USEPA 1997a)

1 00E+01 EF = 10 days/yr - Exposure Frequency for a Utility Worker, (assumed value)

1 00E+00 ED = 1 year - Exposure Duration for a Utility Worker, (assumed value)

7 00E+01 BW = 70 kg - Body Weight for an adult, (USEPA 1991)

1 40E+01 ATn = 14 days - Averaging Time for noncarcinogenic compounds, (assumed value)

2 555E+04 ATc = 25,550 days- Averaging Time for carcinogenic compounds, (USEPA 1991)

HIF--NONCARCINOGENIC---------> 1 22E-01 HIF = (IR * EF * ED) / (BW * ATn)

HIF--CARCINOGENIC----------> 6 71E-05 HIF = (IR * EF * ED) / (BW * ATc)

DAILY INTAKE = (CS * HIF) / (VF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* FOR NAPHTHALENE:

HIF--NONCARCINOGENIC----------> 7 14E-01 HIF = (EF * ED) / (ATn)

HIF--CARCINOGENIC----------> 3 91E-04 HIF = (EF * ED) / (ATc)

DAILY INTAKE = (CS * HIF) / (VF)

HQ (noncarcinogenic) = (INTAKE / RfC)

RISK (carcinogenic) = (INTAKE * UR * 1000 ug/mg)

Table 45
Values Used For Daily Intake Calculations
Post-Remediation Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Subsurface Soil
Exposure Point: Subsurface Soil
Receptor Population: Construction Worker
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	CT Value	CT Rationale/ Reference	Intake Equation
Ingestion	CS	Chemical Concentration in Soil	mg/kg	See Table 12	See Table 12	See Table 12	See Table 12	DI (mg/kg-day) =
	IR	Ingestion Rate of Soil	mg/day	330	2002a	100	USEPA 1997a	CS x IR x EF x ED x FI x CF x 1/BW x 1/AT
	FI	Fraction Ingested	- -	0.8	(1)	0.5	(1)	
	EF	Exposure Frequency	days/year	250	(2)	125	(2)	
	ED	Exposure Duration	years	1	(3)	1	(3)	
	CF	Conversion Factor (mg to kg)	kg/mg	1E-06	- -	1E-06	- -	
	BW	Body Weight	kg	70	USEPA 1991	70	USEPA 1991	
	ATc	Averaging Time (Cancer)	days	25,550	USEPA 1991	25,550	USEPA 1991	
	ATn	Averaging Time (Non-Cancer)	days	350	USEPA 1991	175	USEPA 1991	
Dermal	CS	Chemical Concentration in Soil	mg/kg	See Table 12	See Table 12	See Table 12	See Table 12	DI (mg/kg-day) =
	CF	Conversion Factor (mg to kg)	kg/mg	1E-06	--	1E-06	--	CS x SA x CF x AF x ABS x EF x ED x 1/BW x 1/AT
	AF	Soil to Skin Adherence Factor	mg/cm2	0.3	USEPA 2004c	0.1	USEPA 2004c	
	ABS	Absorption Factor	- -	Chemical Specific See Table 47	USEPA 2004c	Chemical Specific See Table 121	USEPA 2004c	
	SA	Skin Surface Area Available for Contact	cm2	3,300	USEPA 2004c	3,300	USEPA 2004c	
	EF	Exposure Frequency	days/years	250	(2)	125	(2)	
	ED	Exposure Duration	years	1	(3)	1	(3)	
	BW	Body Weight	kg	70	USEPA 1991	70	USEPA 1991	
	ATc	Averaging Time (Cancer)	days	25,550	USEPA 1991	25,550	USEPA 1991	
	ATn	Averaging Time (Non-Cancer)	days	350	USEPA 1991	175	USEPA 1991	

Notes:

(1) Value assumed to evaluate exposure based on sampling data and expected population activity patterns.

(2) Values assumed to represent an average redevelopment construction project. Work to be completed within 1 year. EF: RME = 12 months, 5 days/week CT = 6 months, 5 days/week. ATn: RME = 12 months, 7 days/week CT = 6 months, 7 days/week.

(3) Site-specific - Work to be completed within 1 year.

SOURCES:

USEPA 1991: Risk Assessment Guidance for Superfund. Vol.1: Human Health Evaluation Manual - Supplemental Guidance, Standard Default Exposure Factors. Interim Final. OSWER Directive 9285.6-03, March 15.

USEPA 1997a: Exposure Factors Handbook: Volume I - General Factors, August.

USEPA 2002a: Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. OSWER Directive 9355.4-24, December.

USEPA 2004c: Risk Assessment Guidance for Superfund. Vol.1: Human Health Evaluation Manual Part E - Supplemental Guidance for Dermal Risk Assessment, Final. OSWER Directive 9285.7-02EP, July.

Table 45 (Continued)
Values Used For Daily Intake Calculations
Post-Remediation Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Subsurface Soil
Exposure Point: Subsurface Soil
Receptor Population: Construction Worker
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	CT Value	CT Rationale/ Reference	Intake Equation
Inhalation of Fugitive Dust	CS	COPC Concentration in Soil	mg/kg	See Table 12	See Table 12	See Table 12	See Table 12	Chronic Daily Intake (CDI) (mg/kg-day) =
	IR	Inhalation Rate	m3/day	20	(1)	12	(1)	CS x IR x EF x ED/BW x AT x PEF
	PEF	Particulate Emission Factor	m3/kg	1.24E+08	IAC 2002	1.24E+08	IAC 2002	
	EF	Exposure Frequency	days/year	250	(2)	125	(2)	
	ED	Exposure Duration	years	1	(3)	1	(3)	
	BW	Body Weight	kg	70	USEPA 1991	70	USEPA 1991	
	ATc	Averaging Time (Cancer)	days	25,550	USEPA 1991	25,550	USEPA 1991	
	ATn	Averaging Time (Non-Cancer)	days	350	USEPA 1991	175	USEPA 1991	
Inhalation of Vapor Phase COPCS	CS	COPC Concentration in Soil	mg/m^3	See Table 12	See Table 12	See Table 12	See Table 12	DI (mg/kg-day) =
	VF'	Volatilazion Factor	m^3/kg	See Table 16	See Tables 15-16	See Table 16	See Tables 15-16	CS x IR x EF x ED/(BW x AT x VF')
	IR	Inhalation Rate	m^3/day	20	(1)	12	(1)	
	EF	Exposure Frequency	days/year	250	(2)	125	(2)	
	ED	Exposure Duration	years	1	(3)	1	(3)	DI for use with RfC (mg/m^3) =
	BW	Body Weight	kg	70	USEPA 1991	70	USEPA 1991	CS x EF x ED/(AT x VF')
	ATc	Averaging Time (Cancer)	days	25,550	USEPA 1991	25,550	USEPA 1991	
	ATn	Averaging Time (Non-Cancer)	days	350	(2)	175	(2)	

Notes:

(1) Assumes 8 hours a day of heavy activity (2.5 m 3/hr) for the RME value and 8 hours of moderate activity (1.5 m 3/hr) for the CT value (USEPA 1997a).

(2) Values assumed to represent an average redevelopment construction project. Work to be completed within 1 year. EF: RME = 12 months, 5 days/week CT = 6 months, 5 days/week. ATn: RME = 12 months, 7 days/week CT = 6 months, 7 days/week.

(3) Site specific - Work to be completed within one year.

SOURCES:

Illinois Administrative Code (IAC), 2002: Title 35: Environmental Protection, Subtitle G, Chapter I, Pollution Control Board, Subchapter f, Part 742: Tiered Approach to Corrective Action Objectives (TACO), Appendix C, Table B, February.

USEPA 1991: Risk Assessment Guidance for Superfund. Vol.1: Human Health Evaluation Manual - Supplemental Guidance, Standard Default Exposure Factors. Interim Final. OSWER Directive 9285.6-03, March 15.

USEPA 1997a: Exposure Factors Handbook: Volume 1 - General Factors, August.

Table 46
Incidental Ingestion of Soil
Reasonable Maximum Exposure (RME)
Post-Remediation Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

		Noncarcinogenic Effects				Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	RME Conc (CS) mg/kg	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Oral RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Oral Slope Factor $(mg/kg\text{-}day)^{-1}$	Risk unitless
Acetone	0.32	2.69E-06	8.62E-07	1.0E+00	9E-07	3.69E-08	1.18E-08		
Benzene	0.015	2.69E-06	4.04E-08	4.0E-03	1E-05	3.69E-08	5.54E-10	5.5E-02	3E-11
2-Butanone	0.072	2.69E-06	1.94E-07	2.0E+00	1E-07	3.69E-08	2.66E-09		
o-Xylene	0.025	2.69E-06	6.73E-08	2.0E-01	3E-07	3.69E-08	9.23E-10		
Acenaphthene	0.19	2.69E-06	5.12E-07	6.0E-01	9E-07	3.69E-08	7.01E-09		
Acenaphthylene	0.13	2.69E-06	3.50E-07			3.69E-08	4.80E-09		
Anthracene	0.3	2.69E-06	8.08E-07	3.0E+00	3E-07	3.69E-08	1.11E-08		
Benzo(a)anthracene	0.43	2.69E-06	1.16E-06			3.69E-08	1.59E-08	7.3E-01	1E-08
Benzo(b)fluoranthene	0.36	2.69E-06	9.70E-07			3.69E-08	1.33E-08	7.3E-01	1E-08
Benzo(k)fluoranthene	0.39	2.69E-06	1.05E-06			3.69E-08	1.44E-08	7.3E-02	1E-09
Benzo(g,h,i)perylene	0.48	2.69E-06	1.29E-06			3.69E-08	1.77E-08		
Benzo(a)pyrene	0.52	2.69E-06	1.40E-06			3.69E-08	1.92E-08	7.3E+00	1E-07
Chrysene	0.67	2.69E-06	1.80E-06			3.69E-08	2.47E-08	7.3E-03	2E-10
Dibenzo(a,h)anthracene	0.13	2.69E-06	3.50E-07			3.69E-08	4.80E-09	7.3E+00	4E-08
Fluoranthene	1.1	2.69E-06	2.96E-06	4.0E-01	7E-06	3.69E-08	4.06E-08		
Fluorene	0.31	2.69E-06	8.35E-07	4.0E-01	2E-06	3.69E-08	1.14E-08		
Indeno(1,2,3-cd)pyrene	0.35	2.69E-06	9.43E-07			3.69E-08	1.29E-08	7.3E-01	9E-09
Naphthalene	1.1	2.69E-06	2.96E-06	2.0E-02	1E-04	3.69E-08	4.06E-08		
Phenanthrene	1	2.69E-06	2.69E-06			3.69E-08	3.69E-08		
Pyrene	1.2	2.69E-06	3.23E-06	3.0E-01	1E-05	3.69E-08	4.43E-08		
Arsenic	17	2.69E-06	4.58E-05	3.0E-04	2E-01	3.69E-08	6.27E-07	1.5E+00	9E-07
Beryllium	1.3	2.69E-06	3.50E-06	5.0E-03	7E-04	3.69E-08	4.80E-08		
Cadmium	0.66	2.69E-06	1.78E-06	1.0E-03	2E-03	3.69E-08	2.44E-08		
Chromium*	21	2.69E-06	5.66E-05	2.0E-02	3E-03	3.69E-08	7.75E-07		
Copper	55	2.69E-06	1.48E-04	4.0E-02	4E-03	3.69E-08	2.03E-06		
Lead	41	2.69E-06	1.10E-04			3.69E-08	1.51E-06		
Mercury	0.28	2.69E-06	7.54E-07			3.69E-08	1.03E-08		
Nickel	39	2.69E-06	1.05E-04	2.0E-02	5E-03	3.69E-08	1.44E-06		
Thallium	4.2	2.69E-06	1.13E-05			3.69E-08	1.55E-07		
		Total Pathway Hazard Index--------->			2E-01	Total Pathway Risk----->			1E-06

INCIDENTAL INGESTION OF SOIL

CS = Concentration of chemical in soil (mg/kg) See Table 12

1.00E-06 CF = 0.000001 kg/mg - Conversion Factor

3.30E+02 IR = 330 mg/day - Ingestion Rate of soil for a Construction Worker, (USEPA 2002a)

1.00E+00 ED = 1 yr - Exposure Duration for a Construction Worker, (assumed value)

2.50E+02 EF = 250 days/yr - Exposure Frequency for a Construction Worker, (assumed value)

7.00E+01 BW = 70 kg - Body Weight for an adult, (USEPA 1991)

3.50E+02 ATn = 350 days - Averaging Time for noncarcinogenic compounds, (assumed value)

2.555E+04 ATc = 25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

8.00E-01 FI = 0.8 - Fraction Ingested, (Professional judgement)

HIF--NONCARCINOGENIC----------> 2.69E-06 HIF = (IR * EF * ED * FI / BW) * CF / (ATn)

HIF--CARCINOGENIC----------> 3.69E-08 HIF = (IR * EF * ED * FI / BW) * CF / (ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* Chromium concentration is total chromium, RfD is for chromium VI particulates

Table 47
Dermal Contact with Soil
Reasonable Maximum Exposure (RME)
Post-Remediation Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

			Noncarcinogenic Effects				Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	RME Conc (CS) mg/kg	Absorption Factor (ABS) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Adjusted Dermal RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Adjusted Dermal Slope Factor $(mg/kg\text{-}day)^{-1}$	Risk unitless
Acetone*	0.32									
Benzene*	0.015									
2-Butanone*	0.072									
o-Xylene*	0.025									
Acenaphthene	0.19	1.30E-01	1.01E-05	2.50E-07	6.0E-01	4E-07	1.38E-07	3.42E-09		
Acenaphthylene	0.13	1.30E-01	1.01E-05	1.71E-07			1.38E-07	2.34E-09		
Anthracene	0.3	1.30E-01	1.01E-05	3.94E-07	3.0E+00	1E-07	1.38E-07	5.40E-09		
Benzo(a)anthracene	0.43	1.30E-01	1.01E-05	5.65E-07			1.38E-07	7.74E-09	7.3E-01	6E-09
Benzo(b)fluoranthene	0.36	1.30E-01	1.01E-05	4.73E-07			1.38E-07	6.48E-09	7.3E-01	5E-09
Benzo(k)fluoranthene	0.39	1.30E-01	1.01E-05	5.12E-07			1.38E-07	7.02E-09	7.3E-02	5E-10
Benzo(g,h,i)perylene	0.48	1.30E-01	1.01E-05	6.30E-07			1.38E-07	8.64E-09		
Benzo(a)pyrene	0.52	1.30E-01	1.01E-05	6.83E-07			1.38E-07	9.35E-09	7.3E+00	7E-08
Chrysene	0.67	1.30E-01	1.01E-05	8.80E-07			1.38E-07	1.21E-08	7.3E-03	9E-11
Dibenzo(a,h)anthracene	0.13	1.30E-01	1.01E-05	1.71E-07			1.38E-07	2.34E-09	7.3E+00	2E-08
Fluoranthene	1.1	1.30E-01	1.01E-05	1.44E-06	4.0E-01	4E-06	1.38E-07	1.98E-08		
Fluorene	0.31	1.30E-01	1.01E-05	4.07E-07	4.0E-01	1E-06	1.38E-07	5.58E-09		
Indeno(1,2,3-cd)pyrene	0.35	1.30E-01	1.01E-05	4.60E-07			1.38E-07	6.30E-09	7.3E-01	5E-09
Naphthalene	1.1	1.30E-01	1.01E-05	1.44E-06	2.0E-02	7E-05	1.38E-07	1.98E-08		
Phenanthrene	1	1.30E-01	1.01E-05	1.31E-06			1.38E-07	1.80E-08		
Pyrene	1.2	1.30E-01	1.01E-05	1.58E-06	3.0E-01	5E-06	1.38E-07	2.16E-08		
Arsenic	17	3.00E-02	1.01E-05	5.15E-06	2.9E-04	2E-02	1.38E-07	7.06E-08	1.6E+00	1E-07
Beryllium*	1.3									
Cadmium	0.66	1.00E-03	1.01E-05	6.67E-09	2.5E-05	3E-04	1.38E-07	9.13E-11		
Chromium*	21									
Copper*	55									
Lead*	41									
Mercury*	0.28									
Nickel*	39									
Thallium*	4.2									
			Total Pathway Hazard Index--------->			2E-02		Total Pathway Risk----->		2E-07

DERMAL CONTACT WITH SOIL

CS = Concentration of chemical in soil (mg/kg). See Table 12

ABS = Default value from Rags Part E (USEPA 2004c)

1.00E-06 CF = 0.000001 kg/mg - Conversion Factor

3.30E+03 SA = 3,300 sq cm - Skin Surface Area available for a Construction Worker, (USEPA 2004c)

1.00E+00 ED = 1 yr - Exposure Duration for a Construction Worker, (assumed value)

2.50E+02 EF = 250 days/yr - Exposure Frequency for a Construction Worker, (assumed value)

7.00E+01 BW = 70 kg - Body Weight for an adult, (USEPA 1991)

3.50E+02 ATn = 350 days - Averaging Time for noncarcinogenic compounds, (assumed value)

2.555E+04 ATc = 25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

3.00E-01 AF = 0.3 mg/cm^2 - Soil to Skin Adherence Factor for a Construction Worker, (USEPA 2004c)

HIF--NONCARCINOGENIC---------> 1.01E-05 HIF = (SA * EF * ED* AF / BW)* CF / (ATn)

HIF--CARCINOGENIC----------> 1.38E-07 HIF = (SA* EF * ED * AF / BW) * CF / (ATc)

DAILY INTAKE = (CS * ABS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

NOTE:

* BTEX compounds and inorganics excluded from dermal risk assessment (USEPA 2004c)

Table 48
Inhalation of Chemicals in Fugitive Dust
Reasonable Maximum Exposure (RME)
Post-Remediation Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

		Noncarcinogenic Effects					Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	RME Conc (CS) mg/kg	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Inhalation RfC mg/m^3	Inhalation RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Inhalation SF $(mg/kg\text{-}day)^{-1}$ or UR $(ug/m^3)^{-1}$	Inhalation Risk unitless
Acetone	0.32	1.65E-09	5.27E-10				2.25E-11	7.21E-12		
Benzene	0.015	1.65E-09	2.47E-11	3.0E-02	8.6E-03	3E-09	2.25E-11	3.38E-13	2.7E-02	9E-15
2-Butanone	0.072	1.65E-09	1.18E-10	1.0E+00	2.9E-01	4E-10	2.25E-11	1.62E-12		
o-Xylene	0.025	1.65E-09	4.11E-11	1.0E-01	2.9E-02	1E-09	2.25E-11	5.64E-13		
Acenaphthene	0.19	1.65E-09	3.13E-10				2.25E-11	4.28E-12		
Acenaphthylene	0.13	1.65E-09	2.14E-10				2.25E-11	2.93E-12		
Anthracene	0.3	1.65E-09	4.94E-10				2.25E-11	6.76E-12		
Benzo(a)anthracene (1, 2)	0.43	5.76E-09	2.48E-09				7.89E-11	3.39E-11	8.8E-05	3E-12
Benzo(b)fluoranthene (1,2)	0.36	5.76E-09	2.07E-09				7.89E-11	2.84E-11	8.8E-05	2E-12
Benzo(k)fluoranthene (1,2)	0.39	5.76E-09	2.25E-09				7.89E-11	3.08E-11	8.8E-06	3E-13
Benzo(g,h,i)perylene	0.48	1.65E-09	7.90E-10				2.25E-11	1.08E-11		
Benzo(a)pyrene (1, 2)	0.52	5.76E-09	3.00E-09				7.89E-11	4.10E-11	8.8E-04	4E-11
Chrysene (1, 2)	0.67	5.76E-09	3.86E-09				7.89E-11	5.29E-11	8.8E-07	5E-14
Dibenzo(a,h)anthracene (1, 2)	0.13	5.76E-09	7.49E-10				7.89E-11	1.03E-11	8.8E-04	9E-12
Fluoranthene	1.1	1.65E-09	1.81E-09				2.25E-11	2.48E-11		
Fluorene	0.31	1.65E-09	5.10E-10				2.25E-11	6.99E-12		
Indeno(1,2,3-cd)pyrene (1, 2)	0.35	5.76E-09	2.02E-09				7.89E-11	2.76E-11	8.8E-05	2E-12
Naphthalene(1)	1.1	5.76E-09	6.34E-09	3.0E-03		2E-06	7.89E-11	8.68E-11		
Phenanthrene	1	1.65E-09	1.65E-09				2.25E-11	2.25E-11		
Pyrene	1.2	1.65E-09	1.97E-09				2.25E-11	2.71E-11		
Arsenic (1, 2)	17	5.76E-09	9.79E-08				7.89E-11	1.34E-09	4.3E-03	6E-09
Beryllium (1, 2)	1.3	5.76E-09	7.49E-09	2.0E-05		4E-04	7.89E-11	1.03E-10	2.4E-03	2E-10
Cadmium (1, 2)	0.66	5.76E-09	3.80E-09				7.89E-11	5.21E-11	1.8E-03	9E-11
Chromium (1, 2, 3)	21	5.76E-09	1.21E-07	1.0E-04		1E-03	7.89E-11	1.66E-09	1.2E-02	2E-08
Copper	55	1.65E-09	9.05E-08				2.25E-11	1.24E-09		
Lead	41	1.65E-09	6.75E-08				2.25E-11	9.24E-10		
Mercury	0.28	1.65E-09	4.61E-10	3.0E-04	8.6E-05	5E-06	2.25E-11	6.31E-12		
Nickel	39	1.65E-09	6.42E-08				2.25E-11	8.79E-10		
Thallium	4.2	1.65E-09	6.91E-09				2.25E-11	9.47E-11		
			Total Pathway Hazard Index-------->			2E-03		Total Pathway Risk---->		3E-08

INHALATION DUE TO FUGITIVE DUST

CS = Concentration of chemical in soil (mg/kg) See Table 12.

1.24E+08 PEF = 124,000,000 m^3/kg - Particulate Emission Factor, (IAC 2002)

2.00E+01 IR = 20 m3/day - Inhalation Rate of soil by a Construction Worker, (USEPA 1997a)

2.50E+02 EF = 250 days/yr - Exposure Frequency for a Construction Worker, (assumed value)

1.00E+00 ED = 1 yr - Exposure Duration for a Construction Worker, (assumed value)

7.00E+01 BW = 70 kg - Body Weight for an adult, (USEPA 1991)

3.50E+02 ATn = 350 days - Averaging Time for noncarcinogenic compounds, (assumed value)

2.555E+04 ATc = 25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

HIF--NONCARCINOGENIC---------> 1.65E-09 HIF = (IR * EF * ED) / (BW * PEF * ATn)

HIF--CARCINOGENIC----------> 2.25E-11 HIF = (IR * EF * ED) / (BW * PEF * ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* FOR CARCINOGENIC PAHS, NAPHTHALENE, ARSENIC, BERYLLIUM, CADMIUM AND CHROMIUM:

HIF--NONCARCINOGENIC---------> 5.76E-09 HIF = (EF * ED) / (PEF * ATn)

HIF--CARCINOGENIC----------> 7.89E-11 HIF = (EF * ED) / (PEF * ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfC)

RISK (carcinogenic) = (INTAKE * UR * 1000 ug/mg)

NOTES:

(1) Units for HIF are kg/m^3 and units for Daily Intake are mg/m^3.

(2) Unit Risk (UR) $(ug/m^3)^{-1}$ is used to calculate carcinogenic risk.

(3) Chromium concentration is total chromium, RfC and slope factor are for chromium VI particulates

Table 49
Inhalation of Chemicals in Vapor Phase
Reasonable Maximum Exposure (RME)
Post-Remediation Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

			Noncarcinogenic Effects					Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	RME Conc (CS) mg/kg	Volatization Factor (VF') m^3/kg	Human Intake Factor (HIF) m^3/kg-day OR unitless *	Daily Intake mg/kg-day OR mg/m^3 *	Inhalation RfC mg/m^3 *	Inhalation RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) m^3/kg-day OR unitless *	Daily Intake mg/kg-day OR mg/m^3 *	Inhalation Slope Factor (SF) $(mg/kg\text{-}day)^{-1}$ or Unit Risk (UR) $(ug/m^3)^{-1}$ *	Inhalation Risk unitless
Acetone	0.32	4.10E+02	2.04E-01	1.59E-04				2.80E-03	2.18E-06		
Benzene	0.015	7.30E+01	2.04E-01	4.19E-05	3.0E-02	8.6E-03	5E-03	2.80E-03	5.75E-07	2.7E-02	2E-08
2-Butanone	0.072	5.08E+02	2.04E-01	2.89E-05	1.0E+00	2.9E-01	1E-04	2.80E-03	3.96E-07		
o-Xylene	0.025	1.27E+02	2.04E-01	4.02E-05	1.0E-01	2.9E-02	1E-03	2.80E-03	5.50E-07		
Naphthalene *	1.1	1.02E+03	7.14E-01	7.71E-04	3.0E-03		3E-01	9.78E-03	1.06E-05		
				Total Pathway Hazard Index-------->			3E-01		Total Pathway Risk---->		2E-08

INHALATION OF CHEMICALS IN VAPOR PHASE

CS = Concentration of chemical in soil (mg/kg). See Table 12.

VF' = Volatization factor adjusted for agitaion See Table 16.

2.00E+01 IR = 20 m3/day - Inhalation Rate of a Construction Worker, (USEPA 1997a)

2.50E+02 EF = 250 days/yr - Exposure Frequency for a Construction Worker, (assumed value)

1.00E+00 ED = 1 year - Exposure Duration for a Construction Worker, (assumed value)

7.00E+01 BW = 70 kg - Body Weight for an adult, (USEPA 1991)

3.50E+02 ATn = 350 days - Averaging Time for noncarcinogenic compounds, (assumed value)

2.555E+04 ATc = 25,550 days- Averaging Time for carcinogenic compounds, (USEPA 1991)

HIF--NONCARCINOGENIC---------> 2.04E-01 HIF = (IR * EF * ED) / (BW * ATn)

HIF--CARCINOGENIC----------> 2.80E-03 HIF = (IR * EF * ED) / (BW * ATc)

DAILY INTAKE = (CS * HIF) / (VF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* FOR NAPHTHALENE:

HIF--NONCARCINOGENIC----------> 7.14E-01 HIF = (EF * ED) / (ATn)

HIF--CARCINOGENIC----------> 9.78E-03 HIF = (EF * ED) / (ATc)

DAILY INTAKE = (CS * HIF) / (VF)

HQ (noncarcinogenic) = (INTAKE / RfC)

RISK (carcinogenic) = (INTAKE * UR * 1000 ug/mg)

Table 50
Incidental Ingestion of Soil
Central Tendency (CT)
Post-Remediation Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

		Noncarcinogenic Effects				Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	CT Conc (CS) mg/kg	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Oral RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Oral Slope Factor $(mg/kg\text{-}day)^{-1}$	Risk unitless
Acetone	0 32	5 10E-07	1 63E-07	1 0E+00	2E-07	3 49E-09	1 12E-09		
Benzene	0 015	5 10E-07	7 65E-09	4 0E-03	2E-06	3 49E-09	5 24E-11	5 5E-02	3E-12
2-Butanone	0 072	5 10E-07	3 67E-08	2 0E+00	2E-08	3 49E-09	2 52E-10		
o-Xylene	0 025	5 10E-07	1 28E-08	2 0E-01	6E-08	3 49E-09	8 74E-11		
Acenaphthene	0 19	5 10E-07	9 69E-08	6 0E-01	2E-07	3 49E-09	6 64E-10		
Acenaphthylene	0 13	5 10E-07	6 63E-08			3 49E-09	4 54E-10		
Anthracene	0 3	5 10E-07	1 53E-07	3 0E+00	5E-08	3 49E-09	1 05E-09		
Benzo(a)anthracene	0 43	5 10E-07	2 19E-07			3 49E-09	1 50E-09	7 3E-01	1E-09
Benzo(b)fluoranthene	0 36	5 10E-07	1 84E-07			3 49E-09	1 26E-09	7 3E-01	9E-10
Benzo(k)fluoranthene	0 39	5 10E-07	1 99E-07			3 49E-09	1 36E-09	7 3E-02	1E-10
Benzo(g,h,i)perylene	0 48	5 10E-07	2 45E-07			3 49E-09	1 68E-09		
Benzo(a)pyrene	0 52	5 10E-07	2 65E-07			3 49E-09	1 82E-09	7 3E+00	1E-08
Chrysene	0 67	5 10E-07	3 42E-07			3 49E-09	2 34E-09	7 3E-03	2E-11
Dibenzo(a,h)anthracene	0 13	5 10E-07	6 63E-08			3 49E-09	4 54E-10	7 3E+00	3E-09
Fluoranthene	1 1	5 10E-07	5 61E-07	4 0E-01	1E-06	3 49E-09	3 84E-09		
Fluorene	0 31	5 10E-07	1 58E-07	4 0E-01	4E-07	3 49E-09	1 08E-09		
Indeno(1,2,3-cd)pyrene	0 35	5 10E-07	1 79E-07			3 49E-09	1 22E-09	7 3E-01	9E-10
Naphthalene	1 1	5 10E-07	5 61E-07	2 0E-02	3E-05	3 49E-09	3 84E-09		
Phenanthrene	1	5 10E-07	5 10E-07			3 49E-09	3 49E-09		
Pyrene	1 2	5 10E-07	6 12E-07	3 0E-01	2E-06	3 49E-09	4 19E-09		
Arsenic	17	5 10E-07	8 67E-06	3 0E-04	3E-02	3 49E-09	5 94E-08	1 5E+00	9E-08
Beryllium	1 3	5 10E-07	6 63E-07	5 0E-03	1E-04	3 49E-09	4 54E-09		
Cadmium	0 66	5 10E-07	3 37E-07	1 0E-03	3E-04	3 49E-09	2 31E-09		
Chromium*	21	5 10E-07	1 07E-05	2 0E-02	5E-04	3 49E-09	7 34E-08		
Copper	55	5 10E-07	2 81E-05	4 0E-02	7E-04	3 49E-09	1 92E-07		
Lead	41	5 10E-07	2 09E-05			3 49E-09	1 43E-07		
Mercury	0 28	5 10E-07	1 43E-07			3 49E-09	9 78E-10		
Nickel	39	5 10E-07	1 99E-05	2 0E-02	1E-03	3 49E-09	1 36E-07		
Thallium	4 2	5 10E-07	2 14E-06			3 49E-09	1 47E-08		
		Total Pathway Hazard Index--------->			3E-02	Total Pathway Risk----->			1E-07

INCIDENTAL INGESTION OF SOIL

CS = Concentration of chemical in soil (mg/kg) See Table 12

1 00E-06 CF = 0 000001 kg/mg - Conversion Factor

1 00E+02 IR = 100 mg/day - Ingestion Rate of soil for a Construction Worker, (USEPA 2002a)

1 00E+00 ED = 1 yr - Exposure Duration for a Construction Worker, (assumed value)

1 25E+02 EF = 125 days/yr - Exposure Frequency for a Construction Worker, (assumed value)

7 00E+01 BW = 70 kg - Body Weight for an adult, (USEPA 1991)

1 75E+02 ATn = 175 days - Averaging Time for noncarcinogenic compounds, (assumed value)

2 555E+04 ATc = 25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

5 00E-01 FI = 0 5 - Fraction Ingested, (Professional judgement)

HIF--NONCARCINOGENIC----------> 5 10E-07 HIF = (IR * EF * ED * FI / BW) * CF / (ATn)

HIF--CARCINOGENIC----------> 3 49E-09 HIF = (IR * EF * ED * FI / BW) * CF / (ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* Chromium concentration is total chromium, RfD is for chromium VI particulates

Table 51
Dermal Contact with Soil
Central Tendency (CT)
Post-Remediation Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

			Noncarcinogenic Effects				Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	CT Conc (CS) mg/kg	Absorption Factor (ABS) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Adjusted Dermal RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Adjusted Dermal Slope Factor $(mg/kg\text{-}day)^{-1}$	Risk unitless
Acetone*	0.32									
Benzene*	0.015									
2-Butanone*	0.072									
o-Xylene*	0.025									
Acenaphthene	0.19	1.30E-01	3.37E-06	8.32E-08	6.0E-01	1E-07	2.31E-08	5.70E-10		
Acenaphthylene	0.13	1.30E-01	3.37E-06	5.69E-08			2.31E-08	3.90E-10		
Anthracene	0.3	1.30E-01	3.37E-06	1.31E-07	3.0E+00	4E-08	2.31E-08	8.99E-10		
Benzo(a)anthracene	0.43	1.30E-01	3.37E-06	1.88E-07			2.31E-08	1.29E-09	7.3E-01	9E-10
Benzo(b)fluoranthene	0.36	1.30E-01	3.37E-06	1.58E-07			2.31E-08	1.08E-09	7.3E-01	8E-10
Benzo(k)fluoranthene	0.39	1.30E-01	3.37E-06	1.71E-07			2.31E-08	1.17E-09	7.3E-02	9E-11
Benzo(g,h,i)perylene	0.48	1.30E-01	3.37E-06	2.10E-07			2.31E-08	1.44E-09		
Benzo(a)pyrene	0.52	1.30E-01	3.37E-06	2.28E-07			2.31E-08	1.56E-09	7.3E+00	1E-08
Chrysene	0.67	1.30E-01	3.37E-06	2.93E-07			2.31E-08	2.01E-09	7.3E-03	1E-11
Dibenzo(a,h)anthracene	0.13	1.30E-01	3.37E-06	5.69E-08			2.31E-08	3.90E-10	7.3E+00	3E-09
Fluoranthene	1.1	1.30E-01	3.37E-06	4.82E-07	4.0E-01	1E-06	2.31E-08	3.30E-09		
Fluorene	0.31	1.30E-01	3.37E-06	1.36E-07	4.0E-01	3E-07	2.31E-08	9.29E-10		
Indeno(1,2,3-cd)pyrene	0.35	1.30E-01	3.37E-06	1.53E-07			2.31E-08	1.05E-09	7.3E-01	8E-10
Naphthalene	1.1	1.30E-01	3.37E-06	4.82E-07	2.0E-02	2E-05	2.31E-08	3.30E-09		
Phenanthrene	1	1.30E-01	3.37E-06	4.38E-07			2.31E-08	3.00E-09		
Pyrene	1.2	1.30E-01	3.37E-06	5.25E-07	3.0E-01	2E-06	2.31E-08	3.60E-09		
Arsenic	17	3.00E-02	3.37E-06	1.72E-06	2.9E-04	6E-03	2.31E-08	1.18E-08	1.6E+00	2E-08
Beryllium*	1.3									
Cadmium	0.66	1.00E-03	3.37E-06	2.22E-09	2.5E-05	9E-05	2.31E-08	1.52E-11		
Chromium*	21									
Copper*	55									
Lead*	41									
Mercury*	0.28									
Nickel*	39									
Thallium*	4.2									
			Total Pathway Hazard Index--------->			6E-03	Total Pathway Risk----->			4E-08

DERMAL CONTACT WITH SOIL

CS = Concentration of chemical in soil (mg/kg) See Table 12

ABS = Default value from Rags Part E (USEPA 2004c).

1.00E-06 CF = 0.000001 kg/mg - Conversion Factor

3.30E+03 SA = 3,300 sq cm - Skin Surface Area available for a Construction Worker, (USEPA 2004c)

1.00E+00 ED = 1 yr - Exposure Duration for a Construction Worker, (assumed value)

1.25E+02 EF = 125 days/yr - Exposure Frequency for a Construction Worker, (assumed value)

7.00E+01 BW = 70 kg - Body Weight for an adult, (USEPA 1991)

1.75E+02 ATn = 175 days - Averaging Time for noncarcinogenic compounds, (assumed value)

2.555E+04 ATc = 25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

1.00E-01 AF = 0.1 mg/cm^2 - Soil to Skin Adherence Factor for a Construction Worker, (USEPA 2004c)

HIF--NONCARCINOGENIC---------> 3.37E-06 HIF = (SA * EF * ED* AF / BW)* CF / (ATn)

HIF--CARCINOGENIC------------> 2.31E-08 HIF = (SA* EF * ED * AF / BW) * CF / (ATc)

DAILY INTAKE = (CS * ABS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

NOTE:

* BTEX compounds and inorganics excluded from dermal risk assessment (USEPA 2004c)

Table 52
Inhalation of Chemicals in Fugitive Dust
Central Tendency (CT)
Post-Remediation Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

		Noncarcinogenic Effects					Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	CI Conc (CS) mg/kg	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Inhalation RfC mg/m^3	Inhalation RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) kg/kg-day	Daily Intake mg/kg-day	Inhalation SF $(mg/kg\text{-}day)^{-1}$ or UR $(ug/m^3)^{-1}$	Inhalation Risk unitless
Acetone	0.32	9.87E-10	3.16E-10				6.76E-12	2.16E-12		
Benzene	0.015	9.87E-10	1.48E-11	3.0E-02	8.6E-03	2E-09	6.76E-12	1.01E-13	2.7E-02	3E-15
2-Butanone	0.072	9.87E-10	7.11E-11	1.0E+00	2.9E-01	2E-10	6.76E-12	4.87E-13		
o-Xylene	0.025	9.87E-10	2.47E-11	1.0E-01	2.9E-02	9E-10	6.76E-12	1.69E-13		
Acenaphthene	0.19	9.87E-10	1.88E-10				6.76E-12	1.29E-12		
Acenaphthylene	0.13	9.87E-10	1.28E-10				6.76E-12	8.79E-13		
Anthracene	0.3	9.87E-10	2.96E-10				6.76E-12	2.03E-12		
Benzo(a)anthracene (1, 2)	0.43	5.76E-09	2.48E-09				3.95E-11	1.70E-11	8.8E-05	1E-12
Benzo(b)fluoranthene (1,2)	0.36	5.76E-09	2.07E-09				3.95E-11	1.42E-11	8.8E-05	1E-12
Benzo(k)fluoranthene (1,2)	0.39	5.76E-09	2.25E-09				3.95E-11	1.54E-11	8.8E-06	1E-13
Benzo(g,h,i)perylene	0.48	9.87E-10	4.74E-10				6.76E-12	3.25E-12		
Benzo(a)pyrene (1, 2)	0.52	5.76E-09	3.00E-09				3.95E-11	2.05E-11	8.8E-04	2E-11
Chrysene (1, 2)	0.67	5.76E-09	3.86E-09				3.95E-11	2.64E-11	8.8E-07	2E-14
Dibenzo(a,h)anthracene (1, 2)	0.13	5.76E-09	7.49E-10				3.95E-11	5.13E-12	8.8E-04	5E-12
Fluoranthene	1.1	9.87E-10	1.09E-09				6.76E-12	7.44E-12		
Fluorene	0.31	9.87E-10	3.06E-10				6.76E-12	2.10E-12		
Indeno(1,2,3-cd)pyrene (1, 2)	0.35	5.76E-09	2.02E-09				3.95E-11	1.38E-11	8.8E-05	1E-12
Naphthalene(1)	1.1	5.76E-09	6.34E-09	3.0E-03		2E-06	3.95E-11	4.34E-11		
Phenanthrene	1	9.87E-10	9.87E-10				6.76E-12	6.76E-12		
Pyrene	1.2	9.87E-10	1.18E-09				6.76E-12	8.12E-12		
Arsenic (1, 2)	17	5.76E-09	9.79E-08				3.95E-11	6.71E-10	4.3E-03	3E-09
Beryllium (1, 2)	1.3	5.76E-09	7.49E-09	2.0E-05		4E-04	3.95E-11	5.13E-11	2.4E-03	1E-10
Cadmium (1, 2)	0.66	5.76E-09	3.80E-09				3.95E-11	2.60E-11	1.8E-03	5E-11
Chromium (1, 2, 3)	21	5.76E-09	1.21E-07	1.0E-04		1E-03	3.95E-11	8.29E-10	1.2E-02	1E-08
Copper	55	9.87E-10	5.43E-08				6.76E-12	3.72E-10		
Lead	41	9.87E-10	4.05E-08				6.76E-12	2.77E-10		
Mercury	0.28	9.87E-10	2.76E-10	3.0E-04	8.6E-05	3E-06	6.76E-12	1.89E-12		
Nickel	39	9.87E-10	3.85E-08				6.76E-12	2.64E-10		
Thallium	4.2	9.87E-10	4.15E-09				6.76E-12	2.84E-11		
			Total Pathway Hazard Index-------->			2E-03		Total Pathway Risk---->		1E-08

INHALATION DUE TO FUGITIVE DUST

CS = Concentration of chemical in soil (mg/kg) See Table 12

1.24E+08 PEF = 124,000,000 m^3/kg - Particulate Emission Factor, (IAC 2002)

1.20E+01 IR = 12 m^3/day - Inhalation Rate of a Construction Worker, (USEPA 1997a)

1.25E+02 EF = 125 days/yr - Exposure Frequency for a Construction Worker, (assumed value)

1.00E+00 ED = 1 yr - Exposure Duration for a Construction Worker, (assumed value)

7.00E+01 BW = 70 kg - Body Weight for an adult, (USEPA 1991)

1.75E+02 ATn = 175 days - Averaging Time for noncarcinogenic compounds, (assumed value)

2.555E+04 ATc = 25,550 days - Averaging Time for carcinogenic compounds, (USEPA 1991)

HIF--NONCARCINOGENIC---------> 9.87E-10 HIF = (IR * EF * ED) / (BW * PEF * ATn)

HIF--CARCINOGENIC----------> 6.76E-12 HIF = (IR * EF * ED) / (BW * PEF * ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* FOR CARCINOGENIC PAHS, NAPHTHALENE, ARSENIC, BERYLLIUM, CADMIUM AND CHROMIUM:

HIF--NONCARCINOGENIC---------> 5.76E-09 HIF = (EF * ED) / (PEF * ATn)

HIF--CARCINOGENIC----------> 3.95E-11 HIF = (EF * ED) / (PEF * ATc)

DAILY INTAKE = (CS * HIF)

HQ (noncarcinogenic) = (INTAKE / RfC)

RISK (carcinogenic) = (INTAKE * UR * 1000 ug/mg)

NOTES:

(1) Units for HIF are kg/m^3 and units for Daily Intake are mg/m^3.

(2) Unit Risk (UR) $(ug/m^3)^{-1}$ is used to calculate carcinogenic risk.

(3) Chromium concentration is total chromium, RfC and slope factor are for chromium VI particulates.

Table 53
Inhalation of Chemicals in Vapor Phase
Central Tendency (CT)
Post-Remediation Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

			Noncarcinogenic Effects					Lifetime Carcinogenic Effects			
Chemicals of Potential Concern	CT Conc (CS) mg/kg	Volatization Factor (VF') m^3/kg	Human Intake Factor (HIF) m^3/kg-day OR unitless *	Daily Intake mg/kg-day OR mg/m^3 *	Inhalation RfC mg/m^3 *	Inhalation RfD mg/kg-day	Hazard Quotient (HQ) unitless	Human Intake Factor (HIF) m^3/kg-day OR unitless *	Daily Intake mg/kg-day OR mg/m^3 *	Inhalation Slope Factor (SF) $(mg/kg\text{-}day)^{-1}$ or Unit Risk (UR) $(ug/m^3)^{-1}$ *	Inhalation Risk unitless
Acetone	0.32	2.90E+02	1.22E-01	1.35E-04				8.39E-04	9.26E-07		
Benzene	0.015	5.16E+01	1.22E-01	3.56E-05	3.0E-02	8.6E-03	4E-03	8.39E-04	2.44E-07	2.7E-02	7E-09
2-Butanone	0.072	3.60E+02	1.22E-01	2.45E-05	1.0E+00	2.9E-01	9E-05	8.39E-04	1.68E-07		
o-Xylene	0.025	8.98E+01	1.22E-01	3.41E-05	1.0E-01	2.9E-02	1E-03	8.39E-04	2.34E-07		
Naphthalene *	1.1	7.21E+02	7.14E-01	1.09E-03	3.0E-03		4E-01	4.89E-03	7.46E-06		
				Total Pathway Hazard Index-------->			4E-01		Total Pathway Risk---->		7E-09

INHALATION OF CHEMICALS IN VAPOR PHASE

CS = Concentration of chemical in soil (mg/kg). See Table 12.

VF' = Volatization factor adjusted for agitaion See Table 16.

1.20E+01 IR = 12 m3/day - Inhalation Rate of a Construction Worker, (USEPA 1997a)

1.25E+02 EF = 125 days/yr - Exposure Frequency for a Construction Worker, (assumed value)

1.00E+00 ED = 1 year - Exposure Duration for a Construction Worker, (assumed value)

7.00E+01 BW = 70 kg - Body Weight for an adult, (USEPA 1991)

1.75E+02 ATn = 175 days - Averaging Time for noncarcinogenic compounds, (assumed value)

2.555E+04 ATc = 25,550 days- Averaging Time for carcinogenic compounds, (USEPA 1991)

HIF--NONCARCINOGENIC---------> 1.22E-01 HIF = (IR * EF * ED) / (BW * ATn)

HIF--CARCINOGENIC----------> 8.39E-04 HIF = (IR * EF * ED) / (BW * ATc)

DAILY INTAKE = (CS * HIF) / (VF)

HQ (noncarcinogenic) = (INTAKE / RfD)

RISK (carcinogenic) = (INTAKE * SLOPE FACTOR)

* FOR NAPHTHALENE:

HIF--NONCARCINOGENIC----------> 7.14E-01 HIF = (EF * ED) / (ATn)

HIF--CARCINOGENIC----------> 4.89E-03 HIF = (EF * ED) / (ATc)

DAILY INTAKE = (CS * HIF) / (VF)

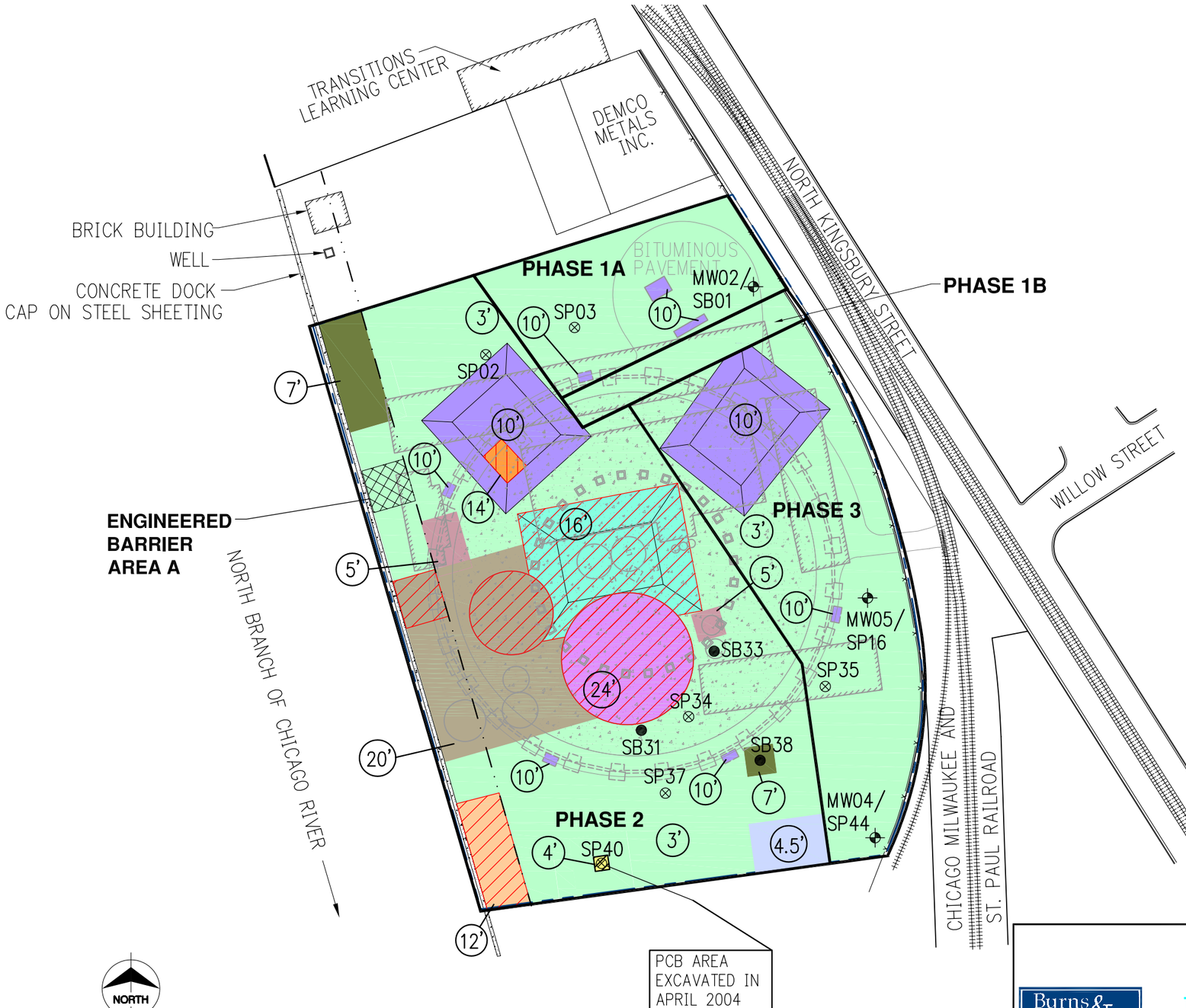
HQ (noncarcinogenic) = (INTAKE / RfC)

RISK (carcinogenic) = (INTAKE * UR * 1000 ug/mg)

Table 54
Summary of Noncarcinogenic Hazard Indices and Carcinogenic Risks
Post-Remediation Resident 1 and 2, Utility Worker and Construction Worker
The Former Willow Street Station Manufactured Gas Plant Site,
1640 North Kingsbury Portion

Population	Medium	Exposure Pathway	Hazard Index (unitless)	Carcinogenic Risk (unitless)
Post-Remediation Resident 1 - Reasonable Maximum Exposure (RME)				
Adult and Child Resident	Subsurface Soil (3-10' bgs)	Incidental Ingestion	4E-02	6E-06
		Dermal Contact	1E-04	2E-06
		Fugitive Dust	2E-04	7E-08
		Vapor Phase	5E-04	3E-09
		Total Risk ------->	**4E-02**	**8E-06**
Post-Remediation Resident 1 - Central Tendency (CT)				
Adult and Child Resident	Subsurface Soil (3-10' bgs)	Incidental Ingestion	2E-02	9E-07
		Dermal Contact	2E-05	1E-07
		Fugitive Dust	2E-04	2E-08
		Vapor Phase	1E-03	2E-09
		Total Risk ------->	**2E-02**	**1E-06**
Post-Remediation Resident 2 - Reasonable Maximum Exposure (RME)				
Adult and Child Resident	Subsurface Soil (3'-extent bgs)	Incidental Ingestion	3E-02	5E-06
		Dermal Contact	1E-04	2E-06
		Fugitive Dust	2E-04	7E-08
		Vapor Phase	2E-03	4E-09
		Total Risk ------->	**4E-02**	**7E-06**
Post-Remediation Resident 2 - Central Tendency (CT)				
Adult and Child Resident	Subsurface Soil (3'-extent bgs)	Incidental Ingestion	2E-02	8E-07
		Dermal Contact	3E-05	1E-07
		Fugitive Dust	2E-04	2E-08
		Vapor Phase	3E-03	2E-09
		Total Risk ------->	**2E-02**	**1E-06**
Post-Remediation Utility Worker - Reasonable Maximum Exposure (RME)				
Adult Utility Worker	Subsurface Soil (3-10' bgs)	Incidental Ingestion	1E-01	8E-08
		Dermal Contact	5E-02	5E-08
		Fugitive Dust	2E-03	2E-09
		Vapor Phase	3E-01	4E-09
		Total Risk ------->	**5E-01**	**1E-07**
Post-Remediation Utility Worker - Central Tendency (CT)				
Adult Utility Worker	Subsurface Soil (3-10' bgs)	Incidental Ingestion	3E-02	8E-09
		Dermal Contact	1E-02	5E-09
		Fugitive Dust	2E-03	1E-09
		Vapor Phase	3E-01	2E-09
		Total Risk ------->	**4E-01**	**2E-08**
Post-Remediation Construction Worker - Reasonable Maximum Exposure (RME)				
Adult Construction Worker	Subsurface Soil (3'-extent bgs)	Incidental Ingestion	2E-01	1E-06
		Dermal Contact	2E-02	2E-07
		Fugitive Dust	2E-03	3E-08
		Vapor Phase	3E-01	2E-08
		Total Risk ------->	**5E-01**	**1E-06**
Post-Remediation Construction Worker - Central Tendency (CT)				
Adult Construction Worker	Subsurface Soil (3'-extent bgs)	Incidental Ingestion	3E-02	1E-07
		Dermal Contact	6E-03	4E-08
		Fugitive Dust	2E-03	1E-08
		Vapor Phase	4E-01	7E-09
		Total Risk ------->	**4E-01**	**2E-07**

Figures
Tier 3 Risk Evaluation
The Former Willow Street Station
Manufactured Gas Plant Site,
1640 North Kingsbury Street



LEGEND

- SITE BOUNDARY (FORMER WILLOW STREET STATION–1640 NORTH KINGSBURY STREET)
- RAILROAD TRACKS
- EXISTING FENCE
- HISTORICAL STRUCTURES
- EXISTING BUILDING
- SOIL PROBE LOCATION
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- AREA OF 3' EXCAVATION
- AREA OF 4' EXCAVATION
- AREA OF 4.5' EXCAVATION
- AREA OF 5' EXCAVATION
- AREA OF 7' EXCAVATION
- AREA OF 10' EXCAVATION
- AREA OF 12' EXCAVATION
- AREA OF 14' EXCAVATION
- AREA OF 16' EXCAVATION
- AREA OF 20' EXCAVATION
- AREA OF 24' EXCAVATION OR BOTTOM OF HOLDER
- AREA CONTAINING PCBs > 50 PPM EXCAVATED IN APRIL 2004
- SOURCE MATERIAL
- 30' SETBACK
- (3') IDENTIFIED DEPTH OF EXCAVATION

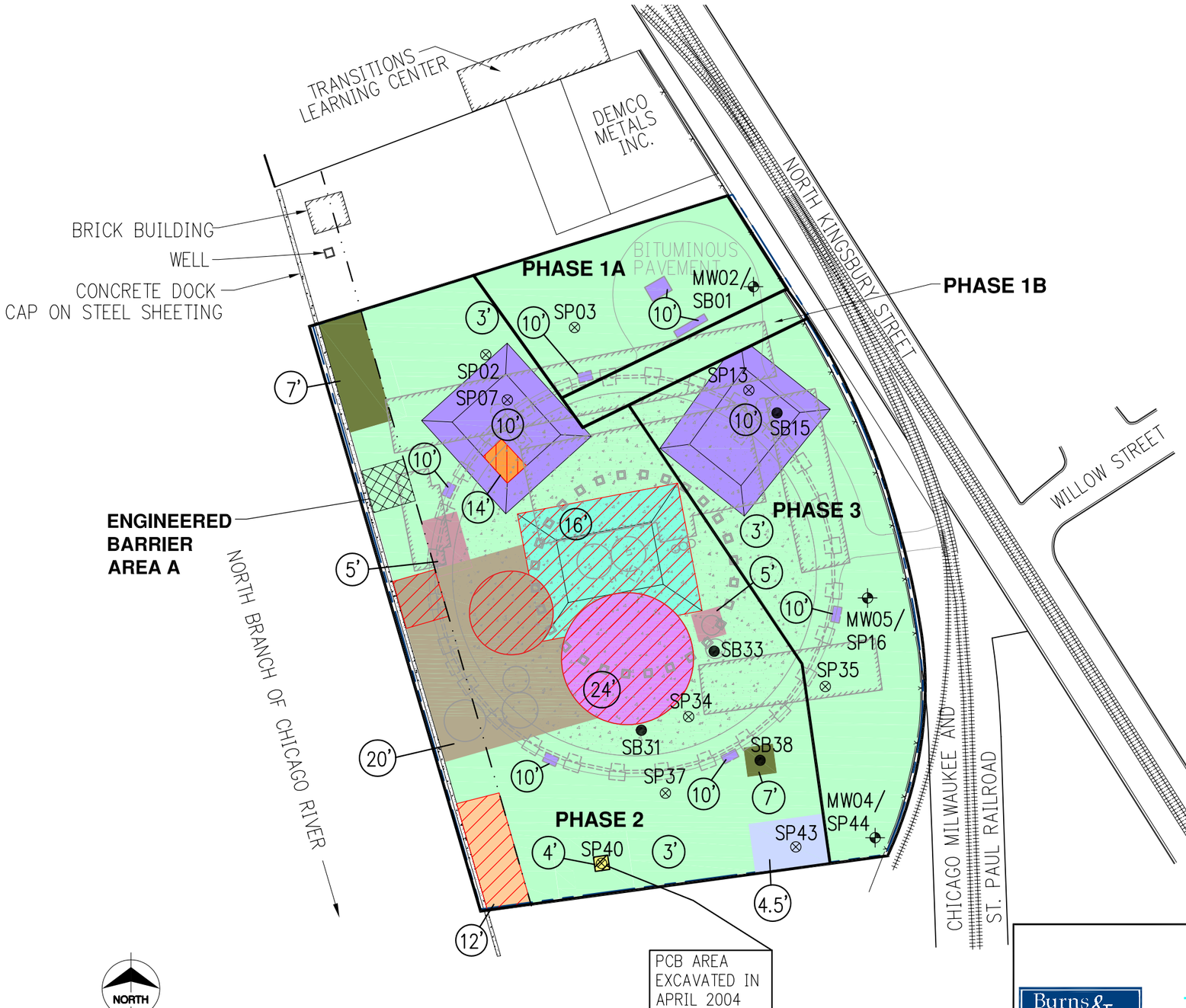
Burns & McDonnell SINCE 1898

THE PEOPLES GAS LIGHT AND COKE COMPANY
CHICAGO, ILLINOIS

Figure 1

RISK EVALUATION SAMPLE LOCATIONS
POST–REMEDIATION RESIDENT 1 AND AND UTILITY WORKER (3–10')
FORMER WILLOW STREET STATION
1640 NORTH KINGSBURY PORTION
CHICAGO, ILLINOIS

I:\PEOPLES GAS\WILLOW GENERAL IRON-32088\CAD\BID\RISK ASSESSMENT\RA SAMPLE RES1



LEGEND

- SITE BOUNDARY (FORMER WILLOW STREET STATION–1640 NORTH KINGSBURY STREET)
- RAILROAD TRACKS
- EXISTING FENCE
- HISTORICAL STRUCTURES
- EXISTING BUILDING
- SOIL PROBE LOCATION
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- AREA OF 3' EXCAVATION
- AREA OF 4' EXCAVATION
- AREA OF 4.5' EXCAVATION
- AREA OF 5' EXCAVATION
- AREA OF 7' EXCAVATION
- AREA OF 10' EXCAVATION
- AREA OF 12' EXCAVATION
- AREA OF 14' EXCAVATION
- AREA OF 16' EXCAVATION
- AREA OF 20' EXCAVATION
- AREA OF 24' EXCAVATION OR BOTTOM OF HOLDER
- AREA CONTAINING PCBs > 50 PPM EXCAVATED IN APRIL 2004
- SOURCE MATERIAL
- 30' SETBACK
- (3') IDENTIFIED DEPTH OF EXCAVATION

Burns & McDonnell SINCE 1898

THE PEOPLES GAS LIGHT AND COKE COMPANY
CHICAGO, ILLINOIS

Figure 2

RISK EVALUATION SAMPLE LOCATIONS
POST–REMEDIATION RESIDENT 2 AND
AND CONSTRUCTION WORKER (3'–EXTENT)
FORMER WILLOW STREET STATION
1640 NORTH KINGSBURY PORTION
CHICAGO, ILLINOIS

I:\PEOPLES GAS\WILLOW GENERAL IRON-32088\CAD\BID\RISK ASSESSMENT\RA SAMPLE RES2